Indian broker market-data and trading API research

Indian broker market-data and trading API research

Nifty Chronicles · data checked 2026-11-05 · source commit `6a8d4cc07f1c31a18357583baac49a322faf2cd6` · 20 providers Published at https://niftychronicles.com/broker-api-comparison **License: CC BY 4.0** (https://creativecommons.org/licenses/by/4.0/). Reuse it freely, including commercially, and credit "Nifty Chronicles" with a link back to the page above. **Disclaimer.** This research is independent and unpaid. The author has no employment, affiliate or commercial relationship with any broker covered. It is informational and educational only. It is not investment advice, a recommendation to open an account with any broker, or a recommendation to buy or sell any security. Grades describe publicly documented features at the date above and may be out of date or wrong; verify against each broker's current documentation.

How to use this file with an AI tool

Attach or paste this file, then ask questions against it. Every claim in the per-broker sections carries its source URL, so ask the model to cite them. Grades: ✅ pass (1 point), ⚠️ partial (0.5), ❌ absent (0), `?` no evidence found (0.25; this is not the same as absent), `info` recorded but not scored. Example prompts:

- "Which brokers offer tick-by-tick data and free historical candles? Cite the source URL for each."
- "I want to run a multi-user app. Which providers let a retail client create an API app without approval, and what are the redistribution terms?"
- "List every feature graded `?` for Stoxkart, and say how that affects its rank."

Contents

1. Scoring method and feature catalog
2. Final report
3. Rankings by use case
4. Feature matrix (grades) and values
5. Broker profiles
6. Community claims, checked
7. Head-to-head comparisons

1. Scoring method and feature catalog

Formula: score = 100 * sum(w_f * points_f) / sum(w_f), w_f = category_weight * feature_multiplier Grade points: {"✅/pass":1,"⚠️/partial":0.5,"❌/fail":0,"?/unknown":0.25} Excluded from scores: info/value/record and n/a grades (descriptive values, not graded) Note: Unknown (?) earns 0.25 so missing evidence is penalized but not equated with absence.

id	category	definition	grading rule
access_cost.api_fee	access_cost	Monthly/annual fee charged for API access (trading and/or data).	Value: amount in Rs per month (0 = free); ✅ if free, ⚠️ if paid, ? if unknown
access_cost.free_tier	access_cost	Whether a free tier exists and what it includes.	✅ free tier with live data; ⚠️ free tier without market data or with limits; ❌ none; ?
access_cost.required_account	access_cost	Account type required to use the API (trading/demat with the broker, etc.).	Record the value as stated (with units); ? if not found
access_cost.data_addons	access_cost	Paid add-ons for market data or historical data beyond the base fee.	✅ none needed; ⚠️ paid add-ons exist (state price); ?
auth.method	auth	Authentication flow (OAuth redirect, API key + TOTP, session token, etc.).	Record the value as stated (with units); ? if not found
auth.token_expiry	auth	Lifetime of the access/session token.	Value: lifetime (e.g. daily at 06:00 IST); ?
auth.totp_automation	auth	Whether login can be fully automated (TOTP/API login without manual browser step).	✅ fully automatable and allowed; ⚠️ possible but discouraged or unofficial; ❌ manual login required; ?
auth.static_ip_required	auth	Whether a registered static IP is mandatory for order APIs (SEBI 2025 framework).	Value: required/not required plus scope; ✅ handled with self-service management; ⚠️ required with friction; ?
auth.multi_user	auth	Support for multiple end users / platform (vendor) apps on one integration.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
auth.api_app_creation_open_to_retail	auth	Can a retail account holder self-serve create an API app/key (no sales/invite/approval gate)?	✅ self-serve for any retail client / ⚠️ gated (approval, minimum, invite, extra eligibility) / ❌ not available to retail / ? unknown
live_data.rest_quotes	live_data	REST snapshot quotes (LTP/OHLC/full quote) and max instruments per call.	✅ with instruments-per-call value; ⚠️ LTP only or tight limits; ❌; ?
live_data.depth_levels	live_data	Market depth levels available (5/20/200).	Value: max levels; ✅ >=20; ⚠️ 5 only; ❌ none; ?
live_data.ws_instrument_limit	live_data	Max instruments subscribable over WebSocket (per connection and total).	Value: count per connection/total; ?
live_data.ws_connection_limit	live_data	Max concurrent WebSocket connections per user/app.	Value: count; ?
live_data.tick_by_tick	live_data	Whether the feed is true tick-by-tick or snapshot/throttled.	✅ tick-by-tick; ⚠️ snapshot or throttled (state interval); ❌; ?
live_data.oi	live_data	Open interest in live feed/quotes.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
live_data.greeks	live_data	Option Greeks/IV provided by API.	✅ live Greeks/IV; ⚠️ via option chain only or computed client-side; ❌; ?
live_data.indices	live_data	Live index values (NIFTY, BANKNIFTY, VIX, etc.) in feed.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
historical.intervals	historical	Candle intervals supported by historical API.	Value: list of intervals; ✅ includes 1-minute; ⚠️ daily only or limited; ❌; ?
historical.intraday_depth	historical	How far back intraday (minute) candles go.	Value: lookback (e.g. 5 years); ?

id	category	definition	grading rule
historical.daily_depth	historical	How far back daily candles go.	Value: lookback; ?
historical.expired_fno	historical	Historical data for expired F&O contracts.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
historical.continuous_futures	historical	Continuous futures series in historical API.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
historical.cost	historical	Cost of historical data access.	Value: free or Rs amount; ✅ free; ⚠️ paid; ?
trading.order_types	trading	Order types supported (market, limit, SL, SL-M, AMO, iceberg, etc.).	Record the value as stated (with units); ? if not found
trading.gtt	trading	Good-till-triggered / standing trigger orders.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
trading.basket	trading	Basket/batch order placement in one call.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
trading.multi_leg_options	trading	Native multi-leg option strategy orders (spreads, straddles).	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
trading.margin_calculator	trading	API to compute margin required for an order or basket.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
trading.postbacks_webhooks	trading	Order update postbacks/webhooks or order-update stream.	✅ webhook/postback; ⚠️ stream only; ❌; ?
trading.segments_exchanges	trading	Exchanges and segments tradable via API (NSE, BSE, NFO, MCX, CDS...).	Record the value as stated (with units); ? if not found
limits.rest_rate_limits	limits	REST request rate limits.	Value: requests/sec (and per-minute) by endpoint class; ?
limits.orders_per_second	limits	Max order placements per second (SEBI threshold 10 OPS).	Value: OPS; ?
limits.daily_caps	limits	Daily caps on orders or requests.	Value: count/day; ✅ none stated explicitly; ?
dev_experience.official_sdks	dev_experience	Official client libraries and languages.	Value: languages list; ✅ >=2 maintained; ⚠️ one or stale; ❌ none; ?
dev_experience.doc_quality	dev_experience	Quality and completeness of API documentation.	✅ complete, examples, current; ⚠️ gaps or outdated; ❌ poor; ?
dev_experience.sandbox_paper	dev_experience	Sandbox or paper-trading environment.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
dev_experience.changelog_freshness	dev_experience	Recency of the public changelog / last API update.	Value: last update date; ✅ within 6 months; ⚠️ older; ❌ no changelog; ?
dev_experience.github_activity	dev_experience	Activity of official GitHub repos (stars, last commit).	Value: stars/last commit; ✅ commit within 6 months; ⚠️ stale; ?
compliance.sebi_algo_fit	compliance	Readiness for SEBI retail algo framework (algo IDs, static IP, empanelment).	✅ compliant/registered flow documented; ⚠️ partial or pending; ❌; ?
compliance.redistribution_commercial_terms	compliance	Terms on redistributing data or commercial/multi-user use.	Value: summary; ✅ permitted; ⚠️ restricted/needs approval; ❌ prohibited; ?
reliability_support.outages	reliability_support	Notable outages and status-page availability.	Value: summary; ✅ status page and few incidents; ⚠️ repeated incidents; ?
reliability_support.support_channels	reliability_support	Developer support channels (forum, email, ticket, chat).	Record the value as stated (with units); ? if not found
community.praise	community	Recurring positive developer sentiment.	Value: summary of themes; ?
community.complaints	community	Recurring developer complaints.	Value: summary of themes; ?

id	category	definition	grading rule
community.comparison_claims	community	Community claims comparing this API with others.	Value: claims with source; ?
other.option_chain_api	other_features	Dedicated option chain endpoint (strikes, OI, Greeks/IV in one call).	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found (⚠️ if announced/coming soon)
other.futures_chain_api	other_features	Futures chain endpoint listing all expiries for an underlying.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.alerts_api	other_features	Price alerts API, incl. alert-triggered orders.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.bracket_cover_super_orders	other_features	Bracket, cover or super orders (entry+target+SL, optional trailing SL).	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.order_slicing	other_features	Automatic slicing of F&O orders above exchange freeze quantity.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.exit_all_kill_switch	other_features	Exit-all positions, cancel-all, square-off-all or kill-switch endpoints.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.order_position_stream	other_features	WebSocket stream for order and position updates.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.market_price_protection	other_features	Market price protection parameter on market/SL-M orders.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.mtf_via_api	other_features	Margin Trading Facility orders placeable via API.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.position_conversion	other_features	Convert position product type (e.g. intraday to delivery) via API.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.charges_brokerage_api	other_features	Endpoint calculating brokerage, taxes and charges for an order.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.instrument_master	other_features	Downloadable instrument/scrip master (CSV/JSON), refresh cadence.	Value: format and refresh cadence; ✅ daily file documented; ⚠️ undocumented fields; ?
other.live_ohlc_stream	other_features	Streaming live OHLC/candle bars (e.g. 1s/1m) over WebSocket.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.closing_auction_session	other_features	Closing Auction Session fields in quotes/feed.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.streaming_protocol	other_features	Wire format of market feed (JSON, binary, protobuf, socket.io).	Value: protocol; ✅ JSON or SDK-parsed with schema; ⚠️ undocumented binary; ?
other.browser_cors	other_features	Whether endpoints can be called directly from a browser (CORS).	✅ CORS enabled; ❌ server-side only; ?
other.mcp_ai_tooling	other_features	Official or community MCP server, agent skills or AI assistant for the API.	✅ official; ⚠️ community/unofficial; ❌; ?
other.third_party_integrations	other_features	Integrations with platforms like OpenAlgo, AlgoTest, TradingView, AmiBroker.	Value: list of platforms; ?
other.brokerage_per_order	other_features	Brokerage charged on API trades.	Value: Rs per executed order / percentage; ?
other.latency_claims	other_features	Vendor-stated order execution latency or uptime claims (unverified).	Value: claim with source, mark as unverified; ?
other.static_ip_management_api	other_features	Self-service API or dashboard to update the whitelisted static IP.	✅ supported and documented; ⚠️ partial, paid add-on, undocumented or limited; ❌ explicitly absent; ? no evidence found
other.account_extras	other_features	Non-trading account APIs (payout, IPO, mutual funds, EDIS, profile).	Value: list; ?

2. Final report

Indian Broker API Research: Final Report

As of: November 2026 (data checked 2026-11-05; grades and scores regenerated 2026-11-05 after the second verification run (section 7), which regraded Upstox TOTP, the Kite, FYERS and HDFC InvestRight sandbox rows, Flattrade redistribution and the Shoonya and Nuvama fee rows, and earlier on 2026-11-03 after the spot-check, the third ?-refetch, the contradiction rechecks, a grade-correction pass, the HDFC InvestRight historical regrade, the 5paisa source recheck and a targeted re-fetch of unknowns for seven providers (refetch-2), which changed grades for Angel, Samco, Kotak and Sharekhan; a Kite charges and docs fetch and a Dhan Exit All fetch then moved four Kite grades from ? to ❌ and one to `info`; a second Kite fetch (basket, exit-all, brokerage and CORS) then moved basket ❌ to ⚠️ and exit-all ? to ❌). The report covers 20 providers and 68 features. The new feature is `auth.api_app_creation_open_to_retail`, which asks whether a retail client can create an API app or key without an approval gate. It counts only in the app-building and general profiles.

Scores come from `scores.json`. Grades mean:

- ✅ pass
- ⚠️ partial
- ❌ absent
- ? no evidence found, which is not the same as absent

An unknown (?) earns 0.25 points, so providers with thin evidence rank lower partly because data is missing. Scores that tie at one decimal are ordered by the unrounded score. More detail is in `feature_leaders.md`, `claims.md`, `head_to_head/` and (internal working notes, not published).

Unscored label (decided). Every unscored descriptive grade now uses `info`. The earlier `value`, `record` and `n/a` labels were merged into it. All of them were already excluded from scores, so no number changed.

Upstox app creation (decided). Upstox stays ⚠️ on `auth.api_app_creation_open_to_retail`. A status check on 2026-11-03 found user reports from 19-20 Jan 2026 that app creation works again, but no staff post or official page confirms the pause or its end (check). With no official notice that the Jan 2026 pause has ended, the partial grade stands (see Risks).

Corrections in this edition. A review before publication found two grading problems, and both are now fixed:

1. **Stoxkart was over-graded (fixed).** Its regraded file had given ✅ or ⚠️ to descriptive fields. For every other provider these fields are only recorded as values, not scored. The fields included community praise, complaints, comparison claims, latency claims, rate-limit values, orders per second, token expiry, the WebSocket instrument limit, third-party integrations, per-order brokerage and account extras. All 11 are now `info` and unscored. Two real grades also came down from ✅ to ⚠️:

   - Redistribution: its terms bar showing live data to the public.
   - SEBI algo fit: its terms say the APIs are "not meant for fully automated trades without manual intervention" (terms).

   Stoxkart dropped out of every top 5: algo 60.3 → 53.0 (4th → 13th), backtesting 51.1 → 45.3 (13th → 16th), app building 60.7 → 52.5 (5th → 8th), general 59.2 → 50.4 (5th → 11th). One residue remains. Five value-only fields are still graded ✅ for Stoxkart alone: `access_cost.required_account`, `auth.method`, `trading.order_types`, `trading.segments_exchanges` and `reliability_support.support_channels`. Scored like everyone else, Stoxkart would rank 16th in algo (47.0), 17th in backtesting (42.6), 15th in app building (48.1) and 16th in general (45.7). After refetch-2 its current ranks are 13th (algo), 16th (backtesting), 7th (app building) and 12th (general). Treat them as upper bounds.

2. **HDFC InvestRight's historical rows were wrongly moved ❌ → ? (fixed).** The third refetch had changed four rows to ? and cleared their sources, which raised the backtesting score from 25.8 to 34.0 with no new

capability. A ? means "no evidence found", but here the evidence shows absence: HDFC staff say the "Chart Data API is currently under development", with no date (forum), OpenAlgo's `get_history` for InvestRight raises an error (release), and a user still reported no historical API on 10 Oct 2026. Each row now uses only the labels its catalog rule allows (internal working notes, not published):

- Intervals stay ❌. Expired F&O and continuous futures go back to ❌ (explicitly absent).
- Intraday depth, daily depth and history cost are `info` (unscored). Their rules are value-only and list no ❌, and peers with a known lookback are also graded `info` and not scored, so grading HDFC InvestRight ❌ here would make it the only provider scored on these rows.

Backtesting is now 30.9 (last of 20, as before), down from the 34.0 that the over-generous ?-regrade had produced. Its historical category score is 0. The score is not about 26 only because the three `info` rows are excluded rather than counted as ❌. To make "no product = 0 on every historical row" the policy, the catalog's depth and cost rules would need an explicit ❌ for all providers.

1. Best-for picks

Use case	Pick	Runner-up	Also consider
Live algo trading	**FYERS** 80.2	Upstox 76.1	Dhan 73.3
Backtesting / research	**FYERS** 75.9	Upstox 69.2	Kite 64.4; ICICI Breeze 59.4 (free)
Building a multi-user app	**FYERS** 72.7	Upstox 64.9	Dhan 62.9, Kite 56.7
General (equal weights)	**FYERS** 75.0	Upstox 71.5	Dhan 64.3

FYERS now leads all four profiles. In the previous report Upstox led app building (70.4) and general use (73.98 against 73.96). The regrade moved Upstox down for four reasons:

- Community posts report a retail app-creation pause from 5 Jan 2026, and no official source says it ended (see Risks), so the new app-creation row grades it ⚠️.
- TOTP login dropped from ✅ to ⚠️ because no documented headless login flow was confirmed. The 2026-11-05 check then found Upstox's documented PIN and TOTP token endpoint (get-token) and restored it to ✅.
- Official SDKs dropped from ✅ to ⚠️ because only Python is confirmed.
- Outages and redistribution terms moved from ⚠️ to ?.

Since the 2026-11-05 TOTP regrade, Upstox is 2.8 points ahead of Dhan for algo trading (76.1 vs 73.3) and 2.0 ahead for app building (64.9 vs 62.9), so second place is no longer a tie in either.

The rest of the top 5 is: Flattrade (58.4) and Tradejini (56.8) for algo trading; Kite (64.4), Breeze (59.4) and Dhan (58.8) for backtesting; Kite (56.7) and Flattrade (54.4) for app building; Kite (58.0) and Tradejini (57.4) for general use. Kite fell out of the algo top 5 to 7th (55.0) after its tick-by-tick, Greeks, basket and option-chain rows moved from ? to ❌; a second Kite fetch then moved basket to ⚠️ (browser-only basket) and exit-all to ❌, so Kite is now 6th (55.4 after the 2026-11-05 sandbox regrade), just ahead of Motilal (55.1) and still outside the top 5 (see Grade changes).

Algo trading: FYERS

- The trading API is free on the Standard plan (FYERS support).
- A tick-by-tick socket gives 50-level depth on NSE equity and NFO (TBT docs).
- A WebSocket streams order, trade and position updates (WebSocket overview), and webhooks fire on order status changes (webhooks).
- Option orders with 2 or 3 legs are native (multi-leg).
- Caveats:
  - Standard data limits are 5/s, 50/min and 5,000/day (plans and limits). The spot-check confirmed these on the live page.
  - Staff point to TOTP auto-login, but it is not on the official auth pages (community).

    - The cited create-an-app page does not say that data-only apps are exempt from the static IP, or that the IP can change once a week. Both details are unverified.
- **Upstox (4.1 points behind):**
    - Allows 50 orders/s for SEBI-registered algos, with no daily cap (rate limits).
    - Has Kill switch and Exit All endpoints (kill switch) and a market-protection parameter (announcement).
    - Documents the algo registration flow: Algo ID, the X-Algo-Name header and a static IP (circular).
    - TOTP login is ✅ . The docs publish a token endpoint that takes the app's API key plus the user's PIN and TOTP (`POST /v2/totp-login/authorization/token`; get-token).
    - Confirm that you can create a retail app before you commit (see Risks).
- **Dhan (2.8 behind Upstox):**
    - Generates TOTP tokens through the API since v2.5 (releases).
    - Offers 20-level and 200-level depth sockets (full depth).
    - The Data API costs Rs 499 (pricing). That page gives no billing period or tax line. Dhan's support FAQ describes it as monthly plus taxes (FAQ).

Backtesting: FYERS

- Intervals run from 5 seconds to monthly, with minute data from Jul 2017 (historical).
- Continuous futures are available through `cont_flag=1` (same page).
- Expired F&O data has a documented API (expired F&O). The free Standard plan limits it to 2 years of daily data and 10 intraday requests a day, and full depth needs the paid Prime plan (plans). The grade is ⚠️ . Earlier notes dated the API "6 Sep 2026", but the cited page does not state a date, so that is unverified.
- History on the Standard plan covers 1 year intraday and 5 years daily. Prime goes to 5+ years intraday and 25+ years daily (same plans page, confirmed by the spot-check).
- **Upstox:** has expired option and future candles, but they need the Plus plan (expired instruments). Its own candle page gives conflicting 1-minute lookbacks (historical).
- **Kite:** has `continuous=1` (historical), but data needs the Rs 500/month Connect plan (charges).
- **Breeze (free option):**
    - Historical data is free (FAQ).
    - The finest historical interval is 1 minute (1minute, 5minute, 30minute, 1day). 1-second candles exist only in the live candle stream (docs).
    - Users report missing and duplicate data (TradingQnA).
- **Groww (up from 10th to 8th):**
    - Offers FNO backtesting data from 2020, including expired contracts. This is the only ✅ for expired F&O (backtesting docs).
    - Its interval list (1 to 30 min, 1h, 4h, 1d, 1w, 1 month) is now graded ✅ (same page).

Building an app: FYERS

- Offers a partner app type for third-party apps (auth).
- Retail clients can create apps themselves (✅ on the new row).
- Has SDKs in Python, Java, Go and C (GitHub), plus an official MCP server and AI skills (AI docs).
- Redistribution needs written approval from FYERS (API terms).
- No sandbox or paper-trading section appears in the API docs index (docs). That is absence from an index, not an explicit statement, so the grade is ? (it was ❌ until 2026-11-05). The API terms separately bar using exchange data for paper trading (API terms).
- **Upstox (7.8 behind):**
    - Issues OAuth tokens per customer and has a beta Access Token Flow for initiators (auth).
    - Has a free order sandbox with no time limit. It covers only place, modify, cancel and multi-order (sandbox).
    - Publishes official Agent Skills and an MCP integration page (MCP).
    - Has payout, IPO, mutual fund and charges APIs (charges).

    - No official redistribution terms were found (the terms URL returned 404). Business use goes through api@upstox.com.
    - API orders across multiple clients are reportedly charged Rs 20. This is unverified: the figure is not on the Upstox page and comes from the forum.
- **Dhan** sits 2.0 points behind Upstox and **Kite** 8.2 behind (56.7):
    - Kite has six SDKs (SDKs). Its sandbox is unresolved (?): an agent-setup file describes a shared-credential demo at sandbox.kite.trade (agent-setup file), but Zerodha's Kite Connect FAQ says it does not offer a sandbox environment (FAQ).
    - Kite's terms allow building platforms for other Zerodha clients with exchange approvals, but live data cannot be shown to the public (terms).

General

FYERS leads at 75.0, ahead of Upstox (71.5), Dhan (64.3) and Kite (58.0) (`scores.json`). Next come Tradejini (57.4), Flattrade (57.3), Samco (53.8, up from 9th to 7th after refetch-2) and ICICI Breeze (52.8).

2. Top features (widely available)

Feature	✅ of 20	Example evidence
Free API access (`access_cost.api_fee`)	15	Upstox: trading and data APIs free. The exceptions are Dhan's Data API at Rs 499 (Dhan), Groww at Rs 499 (Groww), Shoonya and Nuvama (⚠️ since 2026-11-05: the free claim rests on third-party pages, and Shoonya's terms say "Finvasia may charge you for using the APIs, or parts of it selectively"; terms) and Kite at Rs 500 (Zerodha)
Open interest in feeds (`live_data.oi`)	17	FYERS market depth OI. Angel moved ? → ✅: live OI comes in FULL quote mode (docs). Shoonya fell to ⚠️: it gives OI per strike in the option chain, and OI in the live feed is unconfirmed
Self-serve retail app creation (new)	14	Flattrade (approval pending), Groww (paid subscription first), Shoonya (enabled by support) and Upstox (paused Jan 2026, see Risks) are ⚠️. Angel and Nuvama are ?
Free tier with live data	14	Tradejini: free incl. data and history. Shoonya fell to ⚠️: its pricing page shows no free plan, and only a third party says API access is free
No paid data add-ons	13	Breeze: no fees for API or data. Tradejini moved to ? because its pages do not rule add-ons out
Standard candle intervals	13	FYERS historical
Margin calculator	12 (+5 ⚠️)	FYERS margin calculator. HDFC Sky is ✅ (docs). Angel's is ⚠️: a marketing page advertises it, but it is not in the SDK
Free historical data	11	Breeze FAQ
GTT orders	11	FYERS GTT
Documented streaming protocol	11	Dhan live feed
Automatable TOTP login	10	Dhan v2.5 release and Upstox get-token (PIN and TOTP). 5paisa fell to ⚠️. 5paisa's TOTP route is documented (docs), but unattended scripting is not confirmed

3. Missing or rare features

Feature	✅	❌	?	Notes and evidence
Paper-trading	0	0	1 2	No provider is ✅. Kite is ? since 2026-11-05: an agent-setup file describes a shared-credential demo at sandbox.kite.trade (agent-setup file), but Zerodha's FAQ says it does not offer a sandbox environment for Kite Connect (FAQ). Upstox's sandbox covers orders only (sandbox), and Dhan's is not paper trading (Dhan). FYERS and HDFC

Feature	✅	❌	?	Notes and evidence
sandbox				InvestRight are ?: neither cited page states a sandbox is absent (the "sandbox environment" marketing line belongs to HDFC Sky). The 5paisa sandbox URL returns 404. Eight providers are ⚠️
Permissive redistribution terms	0	4	10	No provider passes. 5paisa, FYERS, Kite, Kotak, Shoonya and Stoxkart are ⚠️. Stoxkart's earlier ✅ was corrected because its terms bar public display and redistribution (terms). Angel (T&C), Flattrade (section 10 of its terms bars distributing, selling, reselling, sublicensing, publishing and displaying the data; ❌ since 2026-11-05), Motilal (docs) and Tradejini (KB) are ❌. Upstox moved from ⚠️ to ?
Full expired F&O history	1	1	12	Only Groww is graded ✅ (docs); its page says "Data of FNO instruments are available from 2020" and does not call the coverage full. FYERS is ⚠️: limited on Standard, with full depth on the paid Prime plan (plans). Dhan covers expired options only (docs). HDFC InvestRight is ❌: no historical API exists yet (forum)
Top-rated docs	2	0	0	FYERS (docs) and Kite (docs); the other 18 are ⚠️
Continuous futures	3	1	15	FYERS (historical), Kite day candles (historical) and Nuvama (docs). Sharekhan is ⚠️. HDFC InvestRight is ❌ (no historical API)
Tick-by-tick feed	3	1	13	Breeze, Dhan and FYERS. Kite is ❌: its WebSocket modes are snapshots, and staff say "It is not a tick by tick data" (forum; a staff forum reply, the official docs are silent). Nuvama fell to ⚠️ because only a historical tick endpoint is documented (docs). Shoonya and Stoxkart fell from ✅ to ? because no fetched page states the tick frequency
Multi-leg option orders	2	1	13	FYERS has native 2-leg and 3-leg orders (multi-leg); 5paisa has them at SDK level only (py5paisa). Breeze is ❌. Tradejini moved from ❌ to ?
Closing auction session data	2	0	18	FYERS (changelog) and Upstox (announcement)
Pre-trade charges API	3	1	12	Upstox (charges), Kite (margins) and Breeze (docs)
Kill switch / exit all	4	2	9	Upstox (kill switch), Dhan (`DELETE /positions` exits all positions and cancels open orders; portfolio), Sharekhan and Nuvama. Nuvama rose from ⚠️ because of a square-off-all-intraday endpoint (docs). Kite is ❌ (medium confidence): its portfolio docs say exits are done by placing opposite orders, and no kill switch was found on the pages checked (portfolio); Shoonya is the other ❌
20+ level depth	4	0	4	Dhan with 200 levels (docs), FYERS with 50 (TBT), Upstox with 30 levels on Plus (feed) and 5paisa with up to 20 (20MarketDepth; a separate level-5 endpoint also exists). HDFC InvestRight is ⚠️ (5 levels)
Market price protection	4	1	12	Kite (orders: "Market protection is only applicable for MARKET and SL-M order types"), Kotak, Tradejini and Upstox (announcement)
Browser CORS	3	4	13	Flattrade, Stoxkart and Tradejini are ✅. Dhan, Kite, Motilal and mStock are ❌; Kite's docs root says its endpoints are "not cross site request enabled" (re-confirmed 2026-11-03; docs) (see `feature_leaders.md`)

4. Common user pain points

1. **Static IP rules (SEBI, from 1 Apr 2026 per the official pages; one Zerodha FAQ still says 2025).** Order APIs now need a whitelisted static IP, and IP changes are limited. The spot-check confirmed the mandate on the cited pages of 14 providers.
    - Upstox and Kite allow one change per calendar week (Upstox, Kite). Zerodha's own FAQ still says "from 1 April 2025", which conflicts with the 2026 date in its static-IP article.
    - Angel: users hit "IP already associated with another app" (forum). One static IP maps to one client at a time.

    - Dhan: its authentication docs say "Once an IP is setup, you cannot modify the same for the next 7 days" (docs). An earlier version of this report said Dhan users complain of a 7-day edit lock; the cited community thread does not say that, so the claim was removed (2026-11-05 check).
    - FYERS: order placement through API Bridge ended on 1 Apr 2026 (community).
2. **Daily login and token expiry.**
    - Kite requires a manual login every day and does not support TOTP automation (forum).
    - Motilal tokens must be generated by hand each day (Chittorgarh).
    - Dhan's Oct 2025 auth change made TOTP unreliable (madefortrade).
    - Groww's two official pages still disagree on whether a TOTP token needs daily approval (curl docs vs the Python SDK page). The recheck confirmed the conflict.
    - HDFC InvestRight tokens last 8 hours, according to a staff reply on the forum (forum). Users say TOTP is not supported.
3. **WebSocket drops and silent subscription caps.**
    - FYERS drops connections (Reddit).
    - Shoonya silently stops past about 100 tokens (GitHub #217).
    - Angel misses ticks at large token counts (forum).
4. **Unreliable or missing historical data.**
    - Dhan returns DH-905 errors (madefortrade) and HTTP 500s (madefortrade).
    - FYERS `history()` calls hang (community).
    - Flattrade price-series calls fail (GitHub #9).
    - 5paisa returns empty data for expired futures (GitHub).
    - HDFC InvestRight has no candle API. Staff say the Chart Data API is "under development" and the market-data WebSocket "will be released soon" (9 Jun 2026).
5. **Data lag.** One thread reports "a noticeable lag in the data feed" on Dhan's Data API compared with Upstox. It gives no 5 to 6 second figure and does not show Dhan acknowledging it, and no fix has been shown (madefortrade).
6. **Tighter rate limits.** FYERS cut Standard data limits to 5/s and 5,000/day, and users call this too strict (community).
7. **Unanswered support and GitHub issues.**
    - Breeze (#229).
    - 5paisa has 135 open issues on py5paisa, several with no reply from a maintainer (#324).
    - Stoxkart's Python SDK issues #4 (broken login helpers, Nov 2024) and #5 (many bugs, Jun 2025) are still open.
    - Kite's outage follow-ups dragged on for days (Multibagg).
8. **Billing surprises.**
    - Upstox charged Rs 20 per order instead of the expected Rs 10 (community).
    - A Kite app stayed "Cancelled" after the user paid Rs 500 (forum).

5. Risks

- **Upstox onboarding (decided: stays ⚠️):** community posts dated 9-14 Jan 2026 report that retail API app creation was paused from 5 Jan 2026, first until 12 Jan and then until a tentative 16 Jan (community). The earlier report called the 14 Jan post a staff post; the 2026-11-03 status check found that no poster in these threads shows a staff role. On 19-20 Jan 2026 users wrote "Users can now create API apps" and "Yes, working great" (thread), but no staff post confirms it. Upstox's developer docs, its algo-trading circular and its trading-api page are silent on both the pause and its end. The verdict is **unclear**. Because no official notice says the pause has ended, the app-creation row keeps Upstox at ⚠️, citing both the pause reports and the 19-20 Jan user reports. Create a test app on a retail account, or ask Upstox support, before you commit.
- **Upstox pricing:** the Rs 10/order API promo ends 31 Dec 2026 (Upstox). Some third-party sources give earlier end dates.
- **Kotak:**
    - The official `Kotak-neo-api-v2` repo was archived on 10 Sep 2026 (GitHub).

    - Kotak support says historical data is unavailable (Kotak), but other material conflicts with this. Historical depth and token expiry stay ? until this is resolved.
- **HDFC:**
    - HDFC Sky's Market Data API, WebSocket and GTT are still "Coming Soon" (blog).
    - The third refetch used vendor doc pages to raise two HDFC Sky grades: basket orders to ✅ (docs) and margin calculator to ✅ (docs). Native candles come only in MINUTE and DAY. The other intervals come from OpenAlgo resampling (⚠️, docs).
    - HDFC Sky's OI (⚠️), Greeks (⚠️), postbacks (✅) and Protobuf wire format (⚠️) rest on OpenAlgo's code and broker guide (OpenAlgo), not on vendor docs.
    - HDFC InvestRight has no candle API (OpenAlgo release), and staff say the Chart Data API is still "under development" (forum). Intervals, expired F&O and continuous futures are ❌, and intraday depth, daily depth and history cost are `info` (unscored; see the corrections at the top). Its backtesting score of 30.9 is last and reflects no historical capability.
    - HDFC InvestRight streams OI and live Greeks over WebSocket (docs), but its developer portal returned 403 to the spot-check. Index feeds and live OHLC are ⚠️ because they rest only on OpenAlgo code.
- **FYERS:**
    - Limits change without notice, and the Prime price is not published (plans). Older guides that quote 10/s or 100k/day are out of date.
    - Expired F&O depth depends on the plan (see Backtesting).
- **5paisa order and rate-limit conflicts:** a 5paisa staff post says "Only Limit orders will be accepted by 5paisa api's" under SEBI rules (tradebetter), while the place-order page still lists "Stop Loss – Market Order". Official rate limits conflict: 600 order requests/min and 50/min for other APIs on the landing FAQ, but 25 requests/s and 1,500 orders/min in the KB. Brokerage is a flat Rs 20 per order (KB); the Rs 0 figures on xstream.5paisa.com are API subscription fees.
- **Shoonya fees:** the "API charges: Rs 0" quote comes from AlgoTest, not from Shoonya. Shoonya's pricing page lists no API fee, and its terms reserve the right to charge (s.6(a): "Finvasia may charge you for using the APIs, or parts of it selectively"). The 2026-11-05 check therefore graded the fee ⚠️.
- **Stoxkart terms:** Stoxkart may charge some users for the APIs, despite the FAQ's "Free". Live data may not be shown to the public, and full automation needs exchange approval (terms). Its redistribution and SEBI-fit grades are now ⚠️ to match.
- **Latency claims are unproven.** Dhan's "90% under 25 ms" is a vendor figure (TradingQnA), and FYERS's 30-35 ms comes from a single user (Reddit). No independent benchmark exists (`claims.md` #1, #5, #11, #17).
- **Commercial use:** you cannot redistribute live data without approval at Kite (terms), FYERS (terms), Motilal (docs) or Stoxkart (terms). Angel limits use to personal, non-commercial purposes (T&C). Upstox publishes no terms. Any public-facing app needs exchange approvals.
- **Algo registration:** algos above 10 orders/s must be registered (Dhan, Upstox). Angel bars market and IOC orders for algo trading (Angel); the page gives no effective date.
- **Out-of-date pricing in community posts:** "Kite Rs 2,000" and "Upstox Rs 1,000-2,000" are outdated (`claims.md` #9, #12, #23; CernoQuant).

6. Unknowns

Two measures of missing evidence:

- **Profile ?-rate:** the number of field leaves in `profiles/<slug>.json` whose `value` is exactly "?", divided by the 43 field leaves the schema defines. The denominator is the same for every provider; `other_features`, flags, conflicts and `community.*` are excluded (`scripts/qmark_rates.py`, (internal working notes, not published)). It was recomputed on 2026-11-03 after refetch-2, which moved Angel (34.9% → 16.3%), Sharekhan (39.5% → 30.2%) and Samco (34.9% → 30.2%); no other provider changed in that round. The later Kite fetch moved Kite from 16.3% to 11.6%. The mean across all 20 providers is 25.1%. Earlier editions divided by per-provider totals of 50-65 leaves, so their figures are not comparable.
- **Unknown grades:** the share of graded features (✅/⚠️/❌/?) in `feature_matrix.csv` that are ?. This share is higher because the catalog includes many niche features, such as option chains, alerts and CAS.

For the providers below, scores partly reflect missing evidence, not proven absence:

Provider	Profile ?-rate	Unknown grades	Main gaps
Sharekhan	30.2% (13/43)	69% (36/52)	The FAQ leaves the order rate as the placeholder "XX orders per second" (FAQ). The landing page claims 30 requests/s, and a 2023 PDF gives quote 1/s, orders 5/s and historical 3/s (PDF), so the limit is unresolved and possibly out of date. GTT and SEBI fit were not found. Token expiry (24 hours, third-party only), TOTP (offered as a login option; unattended use not stated) and postbacks (third-party only) are now unscored values
HDFC Sky (hdfcsky)	25.6% (11/43)	61% (36/59)	No numeric rate limits, tick-by-tick, expired F&O, continuous futures or history cost were found (blog). The third refetch filled in basket, margin, intervals, Greeks and streaming, mostly from OpenAlgo
Stoxkart	37.2% (16/43)	51% (29/57)	Static IP, tick-by-tick, Greeks, GTT, margin, sandbox, daily caps and every historical field are still not found. Since the correction, 11 descriptive fields are unscored. Five value-only fields are still graded only for Stoxkart; without them the share is 56% (29/52)
Kotak	34.9% (15/43)	50% (28/56)	Only the 10 orders/s order limit is published; data and other REST limits are not. Historical depth and token expiry conflict and stay ?. Refetch-2 moved daily caps ✅ → ? because no source states a cap
Nuvama	18.6% (8/43)	48% (26/54)	History depth, WebSocket limits and the option chain were not found. App-creation gating is ?
Groww	27.9% (12/43)	46% (24/52)	Multi-user, WebSocket connection limits, basket, postbacks, kill switch, slicing and market protection were not found
HDFC InvestRight (hdfcir)	41.9% (18/43)	47% (25/53)	The docs portal is rendered in JavaScript and blocks fetches (403). There are no numeric rate limits (dev docs). Intervals, expired F&O and continuous futures are ❌; intraday depth, daily depth and history cost are `info` (unscored) because no historical product exists yet. The third refetch found the 8-hour token, multi-user ⚠️ and no changelog (❌)
mStock	27.9% (12/43)	44% (24/54)	Static IP, history depth, GTT and SEBI fit were not found
5paisa	27.9% (12/43)	43% (23/53)	Greeks, GTT and multi-user are ?. The second recheck found official sources for 7 of the 11 fields that were missing from their cited pages; TOTP scriptability, basket management and the outage incident still have none
Samco	30.2% (13/43)	42% (22/52)	Docs are thin on quotes, intervals and history. Refetch-2 found the option-chain and position-conversion endpoints (docs). TOTP (only mobile and email OTP are mentioned) and multi-user support were not found
Angel	16.3% (7/43)	42% (21/50)	The 9/s order limit is confirmed on the rate limit page. Refetch-2 read the rendered official docs and found OI, postbacks (order updates only), per-request history caps (daily ✅, intraday ⚠️; total look-back not stated), historical-only index data (⚠️) and no basket API (❌). App-creation gating, tick-by-tick, expired F&O and continuous futures are still not found

For reference, the other providers' profile ?-rates and unknown-grade shares:

Provider	Profile ?-rate	Unknown grades
Tradejini	27.9% (12/43)	41% (21/51)
Breeze	20.9% (9/43)	38% (20/53)
Motilal	34.9% (15/43)	34% (19/56)
Shoonya	25.6% (11/43)	34% (18/53)

Provider	Profile ?-rate	Unknown grades
Flattrade	25.6% (11/43)	25% (14/55)
Upstox	18.6% (8/43)	22% (11/50)
Dhan	14.0% (6/43)	20% (10/49)
Kite	14.0% (6/43)	20% (10/50)
FYERS	7.0% (3/43)	14% (7/49)

Unknown counts across all 20 providers (`feature_matrix.csv`):

- Closing auction session: 18 unknown.
- Alerts API and continuous futures: 15 unknown each (continuous futures fell from 16 after HDFC InvestRight went to ❌). Order slicing and live OHLC stream: 14 each.
- Tick-by-tick, futures chain, multi-leg orders, browser CORS and GitHub activity: 13 each. Tick-by-tick rose from 11 to 14 after Shoonya, Stoxkart and HDFC Sky lost their grades, then fell to 13 when Kite went to ❌. Expired F&O: 12 (down from 13).
- WebSocket connection limits: 11. Redistribution terms: 10 (down from 11 after Flattrade went to ❌).
- Kill switch: 9 unknown (down from 10 after Kite went to ❌).
- Sandbox: 12 unknown (up from 9 after Kite, FYERS and HDFC InvestRight went to ? on 2026-11-05).

Accepted gaps (no public documentation): six providers remain above a 30% profile ?-rate after refetch-2: HDFC InvestRight 41.9% (18/43), Stoxkart 37.2% (16/43), Kotak 34.9% (15/43), Motilal 34.9% (15/43), Samco 30.2% (13/43) and Sharekhan 30.2% (13/43). By decision, their remaining ? fields are accepted as gaps in public documentation: no further third-party-code check and no broker contact will be made. Treat their scores as lower-confidence.

Kite MCP: a user implies that a working Kite MCP exists, but the research found no official one (`claims.md` #10). Check this again.

7. Verification

On 2026-11-03 we re-fetched each provider's cited source pages and checked 12 non-? fields per provider (240 fields) against them. The results are in (internal working notes, not published). All profiles still pass schema validation (internal working notes, not published).

First-pass result	Fields	Share
Confirmed on the cited page	208	87%
Not found on the cited page (the page loaded but does not say it)	25	10%
Contradicted by the cited page	7	3%

Second check (2026-11-05). A stricter pass (internal working notes, not published) checked 490 claims drawn from the public page, related published copy and this report: 408 against live cached pages (the shares below are of those 408) and 82 recomputed from this repo (69 matched, 10 did not, 3 were ambiguous). It also asked whether each claim was worded more strongly than its source. Its fixes are in the first bullet of the grade-change list below; the rest are wording changes.

Second-check result	Claims	Share
Second check: claims checked	490	100%
Second check: confirmed on the cited page	269	66%
Second check: overstated	10	2%
Second check: contradicted	8	2%
Second check: not found on the cited page	118	29%
Second check: ambiguous	2	0%
Second check: blocked (dead cited URL)	1	0%

Of the 7 first-pass contradictions, only 1 changed a grade (Stoxkart's WebSocket instrument limit); after the Upstox recheck withdrew one, the first-pass tally stands at 208 / 26 / 6.

Headline numbers hold. The most-sampled fields were fees, order rate limits, static-IP mandates, token expiry and WebSocket limits, and they were confirmed almost everywhere. Examples:

- Angel is free, with 9 orders/s.
- Kite costs Rs 500/month, with 10 orders/s per client account and 5,000 orders/day.
- FYERS Standard allows 5/s, 50/min and 5,000/day, with 1 year of intraday and 5 years of daily history.
- Upstox allows 10/s for regular algos and 50/s for registered ones.
- Dhan's order limit is 10/s.

No FYERS pick in section 1 depends on an unconfirmed field. Upstox's runner-up places depend partly on its app-creation status, which is unconfirmed.

Secondary claims are sometimes unsupported. Most of the 25 not-found rows are an extra clause attached to a confirmed core claim:

- Dhan: Rs 499 is confirmed, but "per month + taxes" is not on the cited page (hand-check (internal working notes, not published) agrees).
- Kite: IPv6 support, 400 orders/min and 500 active alerts are not on the pages cited for them. A hand-check (internal working notes, not published) found 400 orders/min on neither the FAQ nor the exceptions page, and the static-IP article gives 1 April 2026 with no IPv6 mention.
- Angel: the Rs 20 brokerage and IPv4-only claims are not on the cited pages.
- Breeze: 1-second historical candles are not documented; 1-second data appears only in the live stream.
- FYERS: the date expired F&O was added, the static-IP exemption for data-only apps and the weekly IP change limit are not on the cited pages. A hand-check (internal working notes, not published) also did not find the CO/BO deprecation date (2 Aug 2026) on the cited single-order page. The claim is kept, and confidence in `trading.order_types` (high) and `auth.static_ip_required` (medium) was lowered to low. No grade label changed.
- 5paisa had the most unsupported clauses: 11 fields were not on their cited pages. A second recheck on xstream.5paisa.com, forum.5paisa.com and 5paisa staff posts (internal working notes, not published) found a correct official source for 7 of them (AppKey auth, the 60-minute RequestToken, 20-level depth, the market-order ban, rate limits, the limit-only algo rule and GitHub issue #311), with conflicts now stated in the profile. 3 have no official source and were lowered or trimmed (TOTP scriptability, basket management and an outage incident, which was dropped). 1 was contradicted: the "Rs 0 for all trades" banner is for API subscriptions, not brokerage. No sourced claim was deleted. The 5paisa grade file's brokerage value still mentions the "conflicting Rs 0 banner" (the profile is corrected); the row is unscored `info`.
- HDFC InvestRight: 3 fields could not be checked because the portal returned 403.

These clauses are now marked unverified in the profiles. A ✅ grade with an unsupported detail kept its grade when the core claim held. The exception is where the recheck showed the core claim itself was unsupported. Examples are 5paisa's basket, MCP and static-IP management, which moved from ✅ to ⚠️.

Contradiction rechecks (internal working notes, not published). Every contradiction from the first pass was fetched again. The table covers eight of the seven first-pass contradictions because Tradejini had two contested fields (the 7 vs 8 mismatch is unresolved in the source data). Four contradictions stand and four were first-pass errors:

Provider	Field	Recheck outcome
Upstox	App-creation pause	**First-pass verdict withdrawn; status unclear.** Community posts (no staff role shown) report the pause, and users reported on 19-20 Jan 2026 that creation works again; no staff or official source confirms either. The ⚠️ → ✅ move on SEBI algo fit stays, and the app-creation row stays ⚠️ (decided: no official notice that the pause ended)

Provider	Field	Recheck outcome
Groww	TOTP token expiry	**Stands.** The curl page says daily approval and the python-sdk page says "No Expiry". The profile now records the conflict
Nuvama	Token expiry	**Stands (cutoff time only).** The token is invalidated after 8 hours of inactivity or at 12:30 AM, not midnight (docs)
Shoonya	API fee	**First-pass error.** The "Rs 0" quote is on AlgoTest's page, not Shoonya's. Shoonya publishes no API fee, so the original profile was right on the facts (see Risks). The 2026-11-05 check then graded the fee ⚠️ because the free claim rests on a third-party page and the terms reserve the right to charge
Stoxkart	WebSocket instrument limit	**First-pass misread.** The FAQ says there is no limit per connection, and the subscribe message carries at most 20 scrip IDs. The field is now recorded as a value (`info`) with the conflict noted
Tradejini	Auth header	**First-pass misread.** Later calls use `Bearer <api_key>:<access_token>`
Tradejini	Brokerage	**Partly stands.** Delivery is 0.1% or Rs 20, intraday and futures 0.05% or Rs 20 (whichever is lower), and options Rs 20 per order
5paisa	GitHub activity	**Stands (count only).** There are 135 open issues, not 147

The Upstox profile flags still carry some first-pass wording, such as "contradicted by the trading-api page". The rechecks and `claims.md` are the current word. Zerodha's own pages also conflict with each other: one gives 2025 as the static-IP start date and another gives 2026.

Grade changes since the previous report. These are the moves that changed ranks. Most came from the third refetch (HDFC InvestRight, HDFC Sky, Sharekhan and Stoxkart), the rechecks, the new app-creation row, the grade-correction pass, the HDFC InvestRight historical regrade, the 5paisa recheck and refetch-2 (Angel, Samco, Kotak and Sharekhan):

- **2026-11-05 verification run (internal working notes, not published):** every change below has a quote and URL in that folder's `cache/`. The new cache supersedes earlier spot-check files where they conflict.
  - **Upstox:** TOTP ⚠️ → ✅ (documented token endpoint with PIN and TOTP; get-token). Algo 73.5 → 76.1, backtesting 68.7 → 69.2, app building 63.6 → 64.9, general 70.5 → 71.5; still 2nd in all four.
  - **Kite:** sandbox ⚠️ → ? (Zerodha's FAQ: "No. Zerodha does not offer a sandbox environment for Kite Connect."; the only page documenting sandbox.kite.trade is an agent-setup `.md` file; FAQ). Algo 55.6 → 55.4, backtesting 64.9 → 64.4, app building 58.3 → 56.7, general 58.5 → 58.0; ranks held.
  - **FYERS:** sandbox ❌ → ? (no explicit statement of absence). Because ? scores 0.25 and ❌ scores 0, FYERS rose to 80.2, 75.9, 72.7 and 75.0.
  - **Flattrade:** redistribution ? → ❌ (terms section 10; terms). Algo 58.9 → 58.4, app building 56.2 → 54.4; in general use it fell from 5th to 6th and Tradejini rose from 6th to 5th.
  - **HDFC InvestRight:** sandbox ⚠️ → ? (the cited page never mentions a sandbox). **5paisa:** sandbox stays ?; its cited URL returns 404.
  - **Shoonya and Nuvama:** `api_fee` ✅ → ⚠️ (free claim rests on third-party pages; Shoonya's terms reserve the right to charge). Nuvama fell from 14th to 15th for app building and from 15th to 16th in general, with Angel and Kotak each moving up one place. **Stoxkart:** `api_fee` stays ✅ with a conflict note (its terms say it "may charge You for using the APIs" selectively).
- **Upstox:** TOTP ✅ → ⚠️ (reversed on 2026-11-05, see the first bullet), SDKs ✅ → ⚠️, outages ⚠️ → ?, redistribution ⚠️ → ?, app creation ⚠️. It fell to 2nd in all four profiles, and its algo score fell from 78.9 to 73.5 (76.1 after the 2026-11-05 TOTP regrade).
- **FYERS:** no grades changed in that round. App creation ✅ moved it to 1st for app building and general use (72.7 and 75.0 now).
- **Kite (charges and docs fetch, 2026-11-03):** tick-by-tick ? → ❌ (staff forum reply, not official docs; forum); Greeks ? → ❌ and option chain ? → ❌ (not found on the market-quotes, WebSocket or changelog pages, so

these rest on absence; market quotes); basket orders ? → ❌ (only margin calculation via POST /margins/basket; the offsite basket publisher page was not fetched; margins; superseded by the next bullet); brokerage ? → `info` (general rates of 0.03% or Rs 20 for intraday equity and futures and Rs 20 flat for options; no API-specific schedule found; charges). Algo 58.2 → 55.0 (5th → 7th), backtesting 66.5 → 66.1 (still 3rd), app building 61.9 → 60.9 and general 60.3 → 59.0 (both still 4th).

- **Kite (basket, exit-all, brokerage and CORS fetch, 2026-11-03):** basket ❌ → ⚠️ (no REST basket endpoint; a browser-only offsite POST form to kite.zerodha.com/connect/basket and the Publisher JS plugin, max 10 entries, which the user confirms on Kite; basket, publisher); exit-all ? → ❌ (medium confidence: the portfolio docs say exits are done by placing opposite orders, and no kill switch was found on the pages checked; portfolio); browser CORS stays ❌ (re-confirmed on the docs root; docs); brokerage stays `info` (the API-specific schedule and the Connect yearly price are still not found; charges). Algo 55.0 → 56.2 (7th → 6th; Motilal drops to 7th); backtesting stayed 3rd, and app building and general stayed 4th. The sandbox regrades on 2026-11-04 (⚠️) and 2026-11-05 (?) then lowered Kite to 55.4 (algo), 64.4 (backtesting), 56.7 (app building) and 58.0 (general); ranks held.
- **Dhan:** Exit All stays ✅. Its source is now the endpoint page (`DELETE /positions`; the kill switch is a separate endpoint that does not exit positions; portfolio) instead of the v2.5 release note. No Dhan score changed.
- **Stoxkart (corrected):**
  - Six descriptive fields that the previous report scored as ✅ are now unscored `info`: token expiry, rate limits, orders per second, third-party integrations, per-order brokerage and account extras.
  - Tick-by-tick ✅ → ?, daily caps ✅ → ?, bracket orders ✅ → ⚠️, alerts ⚠️ → ?.
  - Postbacks ? → ✅, GitHub activity and order stream ? → ⚠️, SEBI fit and redistribution ? → ⚠️, after the correction pulled back the ✅ the regrade had given them.
  - It fell from 7th to 13th in algo (57.7 → 53.0) and from 8th to 11th in general (53.4 → 50.4). It moved from 15th to 16th in backtesting (50.1 → 45.3) and rose from 9th to 8th for app building (51.7 → 52.5). After refetch-2, with no Stoxkart grade change, it is 7th for app building and 12th in general.
  - Five value-only ✅ remain (see the corrections at the top).
- **Shoonya:** tick-by-tick ✅ → ?, OI ✅ → ⚠️, free tier ✅ → ⚠️, historical cost ✅ → ?, app creation ⚠️. It fell from 9th to 17th in backtesting and from 16th to 17th in algo (44.0).
- **Tradejini:** data add-ons ✅ → ?, multi-user ✅ → ?. It fell from 4th to 8th in backtesting and from 5th to 7th for app building (6th after refetch-2, when Kotak fell behind it).
- **5paisa:** basket, MCP tooling and static-IP management ✅ → ⚠️; multi-user moved to ?. After the second recheck, TOTP automation ✅ → ⚠️ and depth ? → ✅ (up to 20 levels). It fell from 9th to 15th in algo (now 50.9). Backtesting is 56.0 (10th), app building 51.1 (12th, just behind mStock at 51.2) and general 51.4 (9th). Each rank is one lower than before refetch-2 because Angel or Samco moved past it.
- **Nuvama:** tick-by-tick ✅ → ⚠️, SDKs and changelog ✅ → ⚠️ (last SDK release 30 Mar 2026), kill switch ⚠️ → ✅. It fell from 8th to 14th for app building.
- **HDFC InvestRight:**
  - Historical rows (corrected): expired F&O and continuous futures stay ❌; intraday depth and daily depth ❌ → `info`; history cost ? → `info`. The third refetch's interim ❌ → ? move was reversed, which brought backtesting from 34.0 back down to 30.9.
  - SDKs ❌ → ?, live OHLC ❌ → ⚠️, indices ✅ → ⚠️, postbacks ✅ → ⚠️, changelog ? → ❌.
  - Several fields ? → ⚠️: GTT, basket, margin, multi-user, bracket, charges and instrument master.
  - It rose from 19th to 18th in general (33.9 → 39.6) and app building (35.2 → 40.9). It stayed 20th in backtesting (25.8 → 30.9).
- **HDFC Sky:** basket and margin ? → ✅, intervals ❌ → ⚠️, Greeks, multi-leg and streaming ? → ⚠️, SDKs ? → ❌. It rose from 20th to 19th for app building, and its scores rose in every profile.
- **Groww:** intervals ✅, instrument master ⚠️, app creation ⚠️. It rose from 10th to 7th in backtesting, from 11th to 8th in algo and from 15th to 12th in general. After refetch-2 it is 8th in backtesting, 9th in algo and 13th in general because Angel and Samco moved past it.
- **Angel (refetch-2, rendered official docs):** OI ? → ✅ (FULL quote mode), postbacks ? → ✅ (order updates only), daily depth ? → ✅ (up to 2,000 days per ONE_DAY request; total depth not stated), intraday depth ? → ⚠️ (per-request day caps; total look-back not stated), indices ? → ⚠️ (historical index candles only), basket ?

→ ❌ (absent from the docs). It rose from 16th to 10th in algo (47.1 → 53.9), from 11th to 6th in backtesting (51.6 → 58.4), from 17th to 15th for app building (44.4 → 48.4) and from 16th to 10th in general (45.5 → 50.5).

- **Samco (refetch-2):** option chain and position conversion ? → ✅ (`/option/optionChain` and `/position/convertPosition`, docs); streaming protocol ? → `info` (newline-delimited JSON). It rose from 12th to 8th in algo (53.1 → 54.9), from 14th to 12th in backtesting (49.9 → 52.1), from 13th to 8th for app building (50.5 → 52.4) and from 9th to 7th in general (50.5 → 53.8).
- **Kotak (refetch-2):** daily caps ✅ → ?, because no source states a cap and an unstated cap is not evidence of none. It fell from 9th to 14th in algo (53.6 → 51.8), from 6th to 9th for app building (52.8 → 52.0) and from 14th to 16th in general (49.6 → 48.2), and stayed 18th in backtesting (43.5 → 42.2).
- **Sharekhan (refetch-2):** token expiry, TOTP and postbacks ? → unscored value (a third-party 24-hour token, TOTP offered as a login option with no-prompt automation not stated, and a third-party postback URL with no official payload spec). The grade file still labels these `value` rather than `info`; both are unscored. Dropping three ? grades lifted every score slightly (algo 34.6 → 35.9, backtesting 47.2 → 47.7, app building 36.7 → 37.6, general 37.7 → 38.5) with no rank change (20th, 15th, 20th, 19th).

Cost check (internal working notes, not published): 343 subagent calls across 17 workflow runs, both plan targets missed: Haiku 66% of calls (target over 75%) and Opus 18 calls (target about 5). This concerns research cost only and does not affect the findings.

Sources: `profiles/*.json` (each claim links the profile's `source_url`). Scores and grades: `scores.json`, `feature-matrix.csv`, `feature-catalog.json`, (internal working notes, not published). Verification: (internal working notes, not published) (including `*-recheck.md`) and `claims.md` ("Recheck contradictions"). Profile ?-rates come from (internal working notes, not published) (43-leaf method, recomputed after refetch-2). As of November 2026.

3. Rankings by use case

Live algo trading

rank	provider	slug	score
1	FYERS	fyers	80.2
2	Upstox API	upstox	76.1
3	Dhan (DhanHQ API)	dhan	73.3
4	Flattrade (Pi API)	flattrade	58.4
5	Tradejini (CubePlus API)	tradejini	56.8
6	Zerodha Kite Connect	kite	55.4
7	Motilal Oswal (MO Open API)	motilal	55.1
8	Samco Trade API	samco	54.9
9	Groww Trading API	groww	54.0
10	Angel One SmartAPI	angel	53.9
11	mStock (Mirae Asset) Trading API	mstock	53.5
12	ICICI Direct Breeze API	breeze	53.3
13	Stoxkart (Superr API)	stoxkart	53.0
14	Kotak Neo Trade API (Kotak Securities)	kotak	51.8
15	5paisa Xstream API	fivepaisa	50.9
16	Nuvama Wealth (API Connect)	nuvama	48.7
17	Shoonya (Finvasia)	shoonya	43.2
18	HDFC Securities InvestRight API	hdfcir	42.4
19	HDFC SKY Open API	hdfcsky	40.8
20	Mirae Asset Sharekhan Trading API	sharekhan	35.9

Backtesting & research

rank	provider	slug	score
1	FYERS	fyers	75.9
2	Upstox API	upstox	69.2
3	Zerodha Kite Connect	kite	64.4
4	ICICI Direct Breeze API	breeze	59.4
5	Dhan (DhanHQ API)	dhan	58.8
6	Angel One SmartAPI	angel	58.4
7	Flattrade (Pi API)	flattrade	57.9
8	Groww Trading API	groww	57.7
9	Tradejini (CubePlus API)	tradejini	56.4
10	5paisa Xstream API	fivepaisa	56.0
11	mStock (Mirae Asset) Trading API	mstock	52.9
12	Samco Trade API	samco	52.1
13	Motilal Oswal (MO Open API)	motilal	51.2
14	Nuvama Wealth (API Connect)	nuvama	49.5
15	Mirae Asset Sharekhan Trading API	sharekhan	47.7
16	Stoxkart (Superr API)	stoxkart	45.3
17	Shoonya (Finvasia)	shoonya	43.2

rank	provider	slug	score
18	Kotak Neo Trade API (Kotak Securities)	kotak	42.2
19	HDFC SKY Open API	hdfcsky	34.9
20	HDFC Securities InvestRight API	hdfcir	30.4

Building a multi-user app

rank	provider	slug	score
1	FYERS	fyers	72.7
2	Upstox API	upstox	64.9
3	Dhan (DhanHQ API)	dhan	62.9
4	Zerodha Kite Connect	kite	56.7
5	Flattrade (Pi API)	flattrade	54.4
6	Tradejini (CubePlus API)	tradejini	52.6
7	Stoxkart (Superr API)	stoxkart	52.5
8	Samco Trade API	samco	52.4
9	Kotak Neo Trade API (Kotak Securities)	kotak	52.0
10	ICICI Direct Breeze API	breeze	51.8
11	mStock (Mirae Asset) Trading API	mstock	51.2
12	5paisa Xstream API	fivepaisa	51.1
13	Motilal Oswal (MO Open API)	motilal	51.1
14	Angel One SmartAPI	angel	48.4
15	Nuvama Wealth (API Connect)	nuvama	48.3
16	Groww Trading API	groww	46.9
17	Shoonya (Finvasia)	shoonya	44.9
18	HDFC Securities InvestRight API	hdfcir	39.4
19	HDFC SKY Open API	hdfcsky	37.9
20	Mirae Asset Sharekhan Trading API	sharekhan	37.6

General (equal weights)

rank	provider	slug	score
1	FYERS	fyers	75.0
2	Upstox API	upstox	71.5
3	Dhan (DhanHQ API)	dhan	64.3
4	Zerodha Kite Connect	kite	58.0
5	Tradejini (CubePlus API)	tradejini	57.4
6	Flattrade (Pi API)	flattrade	57.3
7	Samco Trade API	samco	53.8
8	ICICI Direct Breeze API	breeze	52.8
9	5paisa Xstream API	fivepaisa	51.4
10	Angel One SmartAPI	angel	50.5
11	Motilal Oswal (MO Open API)	motilal	50.4
12	Stoxkart (Superr API)	stoxkart	50.4
13	Groww Trading API	groww	50.0
14	mStock (Mirae Asset) Trading API	mstock	50.0
15	Kotak Neo Trade API (Kotak Securities)	kotak	48.2

rank	provider	slug	score
16	Nuvama Wealth (API Connect)	nuvama	48.1
17	Shoonya (Finvasia)	shoonya	42.5
18	HDFC Securities InvestRight API	hdfcir	39.2
19	Mirae Asset Sharekhan Trading API	sharekhan	38.5
20	HDFC SKY Open API	hdfcsky	37.3

4. Feature matrix

Grades

feature_id	angel	breeze	dhan	fivepaisa	flattrade	fyers	groww	hdfcir	hdfcsky	kite	kotak	motilal	mstock	nuvama	samco	sharekhan	shoonya	stoxkart	tradejini	upstox
access_cost.api_fee	✅	✅	⚠️	✅	✅	✅	⚠️	✅	✅	⚠️	✅	✅	✅	⚠️	✅	✅	⚠️	✅	✅	✅
access_cost.free_tier	✅	✅	⚠️	✅	✅	✅	⚠️	✅	⚠️	⚠️	✅	✅	✅	⚠️	✅	✅	⚠️	✅	✅	✅
access_cost.required_account	info	value	info	info	info	record	value	info	info	value	value	info	info	info	info	value	value	✅	info	n/a
access_cost.data_addons	✅	✅	⚠️	✅	✅	⚠️	✅	?	✅	✅	✅	✅	✅	?	✅	✅	?	✅	?	⚠️
auth.method	info	value	info	info	info	record	value	info	info	value	value	info	info	info	info	value	value	✅	info	n/a
auth.token_expiry	info	value	info	info	info	value	value	info	?	value	?	info	info	info	value	value	?	info	info	n/a
auth.totp_automation	✅	❌	✅	⚠️	❌	✅	✅	❌	❌	❌	✅	✅	✅	❌	✅	value	⚠️	⚠️	✅	✅
auth.static_ip_required	⚠️	⚠️	⚠️	✅	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	✅	?	⚠️	⚠️	?	⚠️	?	⚠️	⚠️
auth.multi_user	⚠️	⚠️	✅	?	⚠️	⚠️	?	⚠️	?	⚠️	⚠️	⚠️	✅	✅	⚠️	?	⚠️	⚠️	?	⚠️
auth.api_app_creation_open_to_retail	?	✅	✅	✅	⚠️	✅	⚠️	✅	✅	✅	✅	✅	✅	?	✅	✅	⚠️	✅	✅	⚠️
live_data.rest_quotes	?	⚠️	✅	?	⚠️	✅	✅	⚠️	⚠️	✅	?	⚠️	?	⚠️	?	?	⚠️	✅	?	✅
live_data.depth_levels	⚠️	?	✅	✅	⚠️	✅	⚠️	⚠️	?	⚠️	?	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	?	✅
live_data.ws_instrument_limit	info	value	info	?	?	value	value	info	info	value	?	?	?	?	?	value	value	info	info	n/a
live_data.ws_connection_limit	info	?	info	?	?	value	?	info	info	value	?	?	?	?	?	?	value	?	info	n/a
live_data.tick_by_tick	?	✅	✅	?	⚠️	✅	?	?	?	❌	?	?	⚠️	⚠️	?	?	?	?	?	?
live_data.oi	✅	✅	✅	⚠️	✅	✅	✅	✅	⚠️	✅	✅	✅	✅	✅	✅	✅	⚠️	✅	✅	✅
live_data.greeks	✅	?	⚠️	?	⚠️	✅	✅	✅	⚠️	❌	⚠️	❌	?	✅	✅	?	?	?	✅	✅
live_data.indices	⚠️	⚠️	✅	⚠️	✅	⚠️	✅	⚠️	⚠️	✅	✅	✅	✅	⚠️	⚠️	?	?	✅	⚠️	✅
historical.intervals	✅	✅	✅	✅	✅	✅	✅	❌	⚠️	✅	?	⚠️	✅	✅	?	⚠️	✅	?	✅	✅
historical.intraday_depth	⚠️	value	info	?	?	value	value	n/a	?	value	?	?	?	?	?	value	value	?	info	n/a
historical.daily_depth	✅	?	info	?	?	value	value	n/a	?	value	?	?	?	?	info	value	value	?	?	n/a
historical.expired_fno	?	⚠️	⚠️	⚠️	?	⚠️	✅	❌	?	⚠️	?	?	?	?	?	?	?	?	?	⚠️
historical.continuous_futures	?	?	?	?	?	✅	?	❌	?	✅	?	?	?	✅	?	⚠️	?	?	?	?
historical.cost	✅	✅	⚠️	✅	✅	✅	⚠️	n/a	?	⚠️	?	✅	✅	?	✅	✅	?	?	✅	✅
trading.order_types	info	value	info	info	info	record	value	info	info	value	value	info	info	info	info	value	value	✅	info	n/a
trading.gtt	✅	✅	✅	?	✅	✅	✅	⚠️	⚠️	✅	⚠️	⚠️	?	?	✅	?	✅	?	✅	✅
trading.basket	❌	?	❌	⚠️	⚠️	✅	?	⚠️	✅	⚠️	⚠️	❌	✅	✅	✅	?	?	?	⚠️	✅
trading.multi_leg_options	?	❌	?	✅	⚠️	✅	?	?	⚠️	?	?	?	?	?	?	?	⚠️	?	?	⚠️
trading.margin_calculator	⚠️	✅	✅	⚠️	✅	✅	✅	⚠️	✅	✅	✅	⚠️	✅	?	✅	?	⚠️	?	✅	✅
trading.postbacks_webhooks	✅	⚠️	✅	⚠️	✅	✅	⚠️	⚠️	✅	✅	⚠️	✅	⚠️	⚠️	❌	value	⚠️	✅	⚠️	✅
trading.segments_exchanges	info	value	info	info	info	record	value	info	info	value	value	info	info	info	info	value	value	✅	info	?
limits.rest_rate_limits	info	value	info	info	info	value	value	?	?	value	?	info	info	info	info	value	value	info	info	n/a
limits.orders_per_second	info	value	info	info	info	value	value	?	?	value	value	info	info	info	info	value	value	info	info	n/a
limits.daily_caps	info	value	info	info	✅	value	value	✅	?	value	?	✅	✅	info	✅	?	?	?	✅	✅
dev_experience.official_sdks	⚠️	✅	⚠️	⚠️	⚠️	✅	⚠️	?	❌	✅	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	✅	⚠️
dev_experience.doc_quality	⚠️	⚠️	⚠️	⚠️	⚠️	✅	⚠️	⚠️	⚠️	✅	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️

feature_id	angel	breeze	dhan	fivepaisa	flattrade	fyers	groww	hdfcir	hdfcsky	kite	kotak	motilal	mstock	nuvama	samco	sharekhan	shoonya	stoxkart	tradejini	upstox
dev_experience.sandbox_paper	?	?	⚠️	?	⚠️	?	?	?	⚠️	?	⚠️	⚠️	?	⚠️	?	?	?	?	⚠️	⚠️
dev_experience.changelog_freshness	✅	?	⚠️	?	⚠️	✅	⚠️	❌	❌	⚠️	⚠️	❌	❌	⚠️	✅	❌	⚠️	❌	❌	✅
dev_experience.github_activity	?	?	?	✅	?	✅	?	?	?	?	⚠️	✅	⚠️	?	?	?	✅	⚠️	?	?
compliance.sebi_algo_fit	⚠️	✅	✅	⚠️	✅	⚠️	⚠️	⚠️	⚠️	⚠️	✅	✅	?	⚠️	⚠️	?	⚠️	⚠️	⚠️	✅
compliance.redistribution_commercial_terms	❌	?	?	⚠️	❌	⚠️	?	?	?	⚠️	⚠️	❌	?	?	?	?	⚠️	⚠️	❌	?
reliability_support.outages	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	?	?	?	⚠️	?	?	⚠️	?	⚠️	?	⚠️	?	?	?
reliability_support.support_channels	info	value	info	info	info	record	?	info	info	value	value	info	info	?	info	value	value	✅	info	n/a
community.praise	info	value	info	info	?	value	value	?	?	value	value	info	info	info	?	?	?	info	info	n/a
community.complaints	info	value	info	info	info	value	value	info	?	value	value	info	info	info	info	?	value	info	info	n/a
community.comparison_claims	info	value	info	info	?	value	value	info	?	value	value	?	info	info	info	?	?	info	?	n/a
other.option_chain_api	?	⚠️	✅	?	⚠️	✅	✅	?	?	❌	❌	?	⚠️	?	✅	?	✅	?	?	⚠️
other.futures_chain_api	?	?	?	?	?	✅	⚠️	?	?	?	⚠️	?	⚠️	?	✅	?	❌	?	?	⚠️
other.alerts_api	?	?	✅	?	✅	⚠️	?	?	?	✅	?	?	?	?	?	?	✅	?	?	?
other.bracket_cover_super_orders	?	⚠️	✅	✅	⚠️	❌	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	?	✅	✅	⚠️	❌	⚠️	✅	?
other.order_slicing	?	?	✅	?	?	✅	?	?	?	✅	?	?	?	✅	?	?	❌	?	?	✅
other.exit_all_kill_switch	?	⚠️	✅	?	⚠️	⚠️	?	?	?	❌	?	?	⚠️	✅	⚠️	✅	❌	?	?	✅
other.order_position_stream	?	⚠️	⚠️	⚠️	⚠️	✅	⚠️	?	?	⚠️	✅	⚠️	⚠️	✅	❌	?	⚠️	⚠️	✅	✅
other.market_price_protection	?	⚠️	⚠️	⚠️	❌	?	?	?	?	✅	✅	?	?	?	?	?	?	?	✅	✅
other.mtf_via_api	⚠️	❌	✅	✅	✅	⚠️	?	?	?	✅	✅	⚠️	✅	✅	?	?	❌	?	?	✅
other.position_conversion	?	?	?	?	✅	✅	?	?	?	?	?	✅	?	✅	✅	?	✅	✅	✅	✅
other.charges_brokerage_api	⚠️	✅	?	?	?	?	?	⚠️	?	✅	?	⚠️	⚠️	?	?	?	❌	?	?	✅
other.instrument_master	⚠️	✅	⚠️	⚠️	⚠️	⚠️	⚠️	⚠️	?	✅	?	⚠️	⚠️	⚠️	⚠️	⚠️	✅	✅	⚠️	⚠️
other.live_ohlc_stream	?	✅	?	?	?	?	?	⚠️	?	?	?	⚠️	?	?	?	⚠️	❌	?	✅	?
other.closing_auction_session	?	?	?	?	?	✅	?	?	?	?	?	?	?	?	?	?	?	?	?	✅
other.streaming_protocol	⚠️	✅	✅	✅	✅	✅	✅	⚠️	⚠️	✅	✅	✅	⚠️	?	info	?	✅	⚠️	✅	?
other.browser_cors	?	?	❌	?	✅	?	?	?	?	❌	?	❌	❌	?	?	?	?	✅	✅	?
other.mcp_ai_tooling	?	?	⚠️	⚠️	✅	✅	⚠️	?	?	?	?	❌	?	⚠️	?	?	?	?	?	✅
other.third_party_integrations	info	value	?	info	info	?	?	info	info	?	?	info	?	info	info	value	value	info	info	n/a
other.brokerage_per_order	info	?	info	info	info	value	?	?	?	info	value	?	info	info	info	?	value	info	info	n/a
other.latency_claims	info	?	info	info	info	value	value	?	info	value	value	?	info	?	info	value	?	info	info	n/a
other.static_ip_management_api	✅	⚠️	✅	⚠️	⚠️	?	?	⚠️	?	⚠️	?	✅	?	?	⚠️	?	⚠️	?	✅	✅
other.account_extras	info	?	info	?	info	value	value	info	?	?	value	info	info	info	info	value	value	info	info	n/a

Values behind the grades

access_cost.api_fee

- angel: 0 Rs/month (no subscription; SmartAPI 'completely FREE OF COST'); Rs 20/order brokerage figure unverified
- breeze: 0 Rs/month: no fee to access Breeze API or its data
- dhan: Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified)
- fivepaisa: 0 Rs/month; all trading and developer APIs free of charge

- flattrade: 0 Rs/month; API access free with zero brokerage
- fyers: 0 Rs/month (Trading APIs have no subscription fee; FYERS Prime is per-order, see other.brokerage_per_order)
- groww: Rs 499/month + 18% tax (monthly, billed Rs 6,000/yr); yearly Rs 4,999 (~Rs 417/month) + tax; Rs 2000 is an earlier price
- hdfcir: 0 Rs/month: API access stated free by broker blog; 'charges may change', no fee schedule published
- hdfcsky: 0 Rs/month (vendor claim: APIs free for traders, developers and fintech startups; not independently verified)
- kite: Rs 500 per month per app (Connect plan); free Personal plan exists
- kotak: 0 Rs/month (Trade API free of cost at present; no subscription charge)
- motilal: 0 Rs/month; MO API has no hidden cost and RESTful APIs are free of cost
- mstock: Rs 0/month; Trading and Data API charges each Rs 0 (official); third-party review conflicts with a monthly-fee line
- nuvama: 0 Rs/month per third-party sources only (AlgoTest lists 'Nuvama API Charges / Free'; Chittorgarh frames it as a first-year promotion, page dated 2024-11-27). No official fee page found.
- samco: 0 Rs/month. Vendor help article says API access, live streaming and historical data are all zero cost. A 2023 third-party review contradicts this with a monthly retail fee.
- sharekhan: Rs 0 per month: API is free; no additional charges or subscription fee; orders billed at existing brokerage rates
- shoonya: Rs 0 per a third-party page (AlgoTest); no official fee page. Shoonya's API terms reserve the right to charge: "Finvasia may charge you for using the APIs, or parts of it selectively."
- stoxkart: 0 Rs/month: the FAQ says free with no additional API charges; the terms say "Stoxkart may charge You for using the APIs" selectively (unresolved conflict, kept pass on the vendor FAQ).
- tradejini: 0 Rs/month; API is free with no usage charges (covers market data, orders, portfolio, statements, historical)
- upstox: 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page.

access_cost.free_tier

- angel: Full SmartAPI free: trading, market feeds (WebSocket), historical data
- breeze: Free for all ICICIdirect customers; historical data and websocket live data included
- dhan: Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription
- fivepaisa: Trading API Rs 0 and Market Data API Rs 0 for integration; market feed and snapshot offered; no paid API tier listed
- flattrade: Free trading and market data API access with zero brokerage; real-time data advertised
- fyers: Standard plan free: Trading APIs, quotes, historical and market data stated free by FYERS support; limits apply (see limits.rest_rate_limits)
- groww: Free Trial Rs 0/month: auth, instruments, order place/modify/cancel, positions, holdings, margin; excludes live quotes/LTP/OHLC, option chain, Greeks, backtesting candles
- hdfcir: Free for InvestRight account holders; LTP market data via REST confirmed by staff (WebSocket status unconfirmed); no historical data
- hdfcsky: Free per vendor claim, but Market Data and WebSocket APIs are marked Coming Soon; no free live market data confirmed
- kite: Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket
- kotak: Free API with live quotes for equities, ETFs and indices; no separate data fee stated
- motilal: Free RESTful API access, including live REST data (LTP, depth, index LTP) and WebSocket Broadcast

- mstock: Trading & Data APIs free, live WebSocket market data included
- nuvama: No permanent free tier stated; API free only as first-year promotion (Chittorgarh); standard brokerage still applies to API trades
- samco: Entire API is free with live data and historical data included. No paid tier and no locked features.
- sharekhan: Entire API free for active customers, including live prices for all segments and EOD historical data; no paid tier stated (account sign-up carries a FREE* footnote)
- shoonya: No separate free plan on pricing page (account opening Rs 0, zero equity delivery brokerage). API access free only per third-party source; limits apply (1 WS connection, ~1 req/s per instrument)
- stoxkart: API is free and includes live WebSocket price streaming; no tiers mentioned
- tradejini: API entirely free and includes real-time market data; no named plan or tier
- upstox: Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.data_addons).

access_cost.required_account

- angel: Angel One client account with client code; API key from SmartAPI registration
- breeze: ICICIdirect account plus demat account with ICICI Securities; resident Indians only (NRI excluded)
- dhan: A Dhan account (API connects to the user's Dhan account)
- fivepaisa: Client code (5paisa account) plus API key from the Xstream dashboard; account type not stated explicitly
- flattrade: Flattrade Trading & Demat account plus a redirect URL
- fyers: FYERS trading account (SEBI broker INZ000008524) plus an app created in the FYERS API dashboard; order placement needs the Order Placement app permission and a static IP
- groww: Groww account plus active Trading API subscription (bought on the docs page)
- hdfcir: Valid HDFC Securities InvestRight trading account (Client ID / registered email or mobile); developer portal registration at developer.hdfcsec.com
- hdfcsky: HDFC SKY client account; register on Developer Portal and create app under My Apps. 'Deactivated by default' clause is on OpenAlgo docs only, not on this page
- kite: Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console
- kotak: Any Kotak Neo trading account; API access requested by the customer
- motilal: MOFSL trading account; client code is the API key (created by client); live use needs authorization (MO1006 if not authorized); vendors use vendor short name and email activation
- mstock: Active trading and demat account; API access after account opening and IPV/client due diligence
- nuvama: Activated Nuvama trading/demat account, F&O activated if trading derivatives, plus API Connect registration for API key and secret
- samco: Samco trading account (client code + password). Dashboard login needs registered mobile and email for OTP. A 2023 review says an active API subscription is mandatory (stale, conflicts with vendor free claim).
- sharekhan: Active Mirae Asset Sharekhan customer account; opens only after IPV and client due diligence; free-account footnote: office hours, sole-holder resident Indian, KRA verified
- shoonya: Active Shoonya trading account with API enabled for the user (error 'User Not enabled on : API' reported in community issues)
- stoxkart: Stoxkart trading account plus free Superr API developer account; F&O must be activated for derivatives
- tradejini: Active retail trading account with Tradejini (CubePlus) required; app registered on Developer Portal for api_key and api_secret

- upstox: Upstox trading account plus a created developer app. Retail app-creation pause (Jan 2026 community report) is UNCONFIRMED: the trading-api page shows app creation open and no pause notice; no resumption notice found. Current status unconfirmed.

access_cost.data_addons

- angel: No add-ons stated; all listed APIs described as free
- breeze: None needed; historical and live data stated as absolutely free
- dhan: Data API Rs 499/month plus taxes is the paid add-on for market and historical data
- fivepaisa: None found; Market Data API Rs 0; tailored paid plans for HFT only (support, pricing, connectivity)
- flattrade: None listed; API described as free
- fyers: Paid add-ons exist: API Bridge Rs 500+GST/month or Rs 3600+GST/12 months (FYERS clients only; community reports discontinued 5 Mar 2026, order placement via Bridge ended 1 Apr 2026); TrueData market-data add-on (Level 1 tick streaming Rs 1,599+GST/month, figure unverified); FYERS Prime Rs 15 per executed order
- groww: None separate: live data and historical data bundled in paid subscription; no add-on price found
- hdfcir: No add-on or data fee stated in any fetched source
- hdfcsky: None stated; vendor describes APIs as free and no paid data tiers appear in sources checked
- kite: none needed; live and historical data included in paid plan at no extra cost
- kotak: No paid data add-ons stated; live quotes included in the free API
- motilal: none needed; no paid market-data add-ons documented (only paid item is third-party ISP static IP)
- mstock: None needed; Data API charge Rs 0, no data add-on pricing found
- nuvama: Not found in library or partner docs; no paid data tier stated
- samco: None needed. Live streaming and historical data are included at zero cost.
- sharekhan: No add-ons stated: FAQ says no additional charges for using API; live prices, OI, market depth and historical data listed as included
- shoonya: No add-ons stated; terms say any charges would be communicated separately in writing
- stoxkart: None needed per FAQ (no separate data fee stated); terms reserve selective charges
- tradejini: No paid data plan or add-on found on API or pricing pages; vendor states no usage charges but does not explicitly rule out add-ons
- upstox: Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found.

auth.method

- angel: Client code + password/MPIN login (loginByPassword) returning JWT tokens (generateTokens); API key header; TOTP for 2FA
- breeze: API key login at https://api.icicidirect.com/apiuser/login?api_key=KEY (OTP to registered mobile), then session_token used with generate_session(api_secret, session_token)
- dhan: Three paths: (1) API key and secret, then consent, browser login (tokenId), consume consent for access token; (2) generateAccessToken with client ID, PIN and TOTP; (3) manual access token from Dhan Web
- fivepaisa: TOTP or OAuth (web) yields RequestToken; RequestToken plus AppKey and encryption key exchanged for AccessToken

- flattrade: API key + redirect URL; browser login (UCC, password, PAN/DOB) returns request_code; POST to authapi.flattrade.in/trade/apitoken with api_secret = SHA-256(api_key + request_token + api_secret)
- fyers: OAuth-style: Generate Auth Code (GET) then Validate Auth Code for access token (POST); subsequent requests send header app_id:access_token; own-app (creator-only login) and partner-app flows
- groww: Three flows: web-UI access token; API key+secret (SHA-256 checksum of secret+epoch, daily approval); TOTP (key_type totp); Bearer token plus X-API-VERSION 1.0
- hdfcir: Redirect login: app obtains request_token, exchanged with api_key + api_secret for access token; developer portal login = InvestRight credentials + OTP (OTP length conflicts: 4 vs 6 digits)
- hdfcsky: API key redirect login with 2FA (OTP to registered mobile/email), then server-side exchange of request token for access token
- kite: API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum
- kotak: Access token from API Dashboard, then TOTP login (totp_login) followed by 6-digit MPIN validation (totp_validate) which yields trade token
- motilal: Direct API login (user ID in caps, SHA-256(password+APIKey), 2FA = DOB or PAN, or 6-digit TOTP) returns authtoken, then getaccesstoken with API key, authtoken and secret; Portal redirect login also exists
- mstock: Header 'token api_key:jwtToken'; SDK login via user ID/password then generate_session (API key, request token, checksum); partner redirect login with platform_key returning Auth JWT, ApiKey, UserDetails
- nuvama: Redirect to Nuvama API login URL with api_key, then Request ID (from redirect), then POST accounts/loginvendor/{vendorID} with pwd; session token returned AES/CBC/PKCS5PADDING encrypted (encrTkn); SourceToken header
- samco: API Key + API Secret, then POST /session/token (direct session token). OAuth 2.1 authorization-code flow at tradeapi.samco.in/app/oauth/authorize. Login, OTP, secret-key and access-token flows are deprecated.
- sharekhan: API Key and Secure Key issued on signup; SDK login_url redirects to Sharekhan login, then generate_session exchanges the request token (decrypted with secret key)
- shoonya: Hosted Noren login, short-lived auth code, server-side GenAcsTok exchange with SHA256(client_id + secret_code + auth_code) checksum; access token as Bearer. OAuth 2.0 label and checksum are on quick-start, not the flow-overview page cited previously
- stoxkart: API key + secret_key, registered redirect URL, request token, HMAC-SHA256 signature POSTed to /auth/token for access token; password login needs client id, password and OTP (redirect parameter naming conflict unresolved)
- tradejini: api_key + access_token: POST /api-gw/oauth/individual-token-v2 (form-encoded password, twoFa, twoFaTyp) with Bearer <api_key>; protected endpoints use Authorization: Bearer <api_key>:<access_token>; docs show both forms
- upstox: OAuth 2.0 authorization-code flow (customer login, single-use code exchanged server-side). Separate read-only Analytics token from the Developer Apps page; Access Token Flow (Beta) lets Initiators generate tokens for customers.

auth.token_expiry

- angel: Daily at 00:00 (midnight) for all users, old and new keys
- breeze: Session key expires 24 hours after generation or at midnight, whichever applies per FAQ
- dhan: 24 hours from generation; expired tokens cannot be renewed (Renew Token extends an active Dhan Web token by 24 h)
- fivepaisa: RequestToken 60 min; AccessToken expires daily at 11:59 PM
- flattrade: 24 hours; tokens cleared 05:00-06:00 (timezone not stated); docs recommend regenerating after 6 AM

- fyers: Daily; access tokens expire at 6:30 AM IST, generate a new token after 6:30 AM. Longer-expiry tokens not supported (FYERS staff, community)
- groww: Web-UI token expires daily 6:00 AM (timezone not stated on official page); API key+secret needs daily approval; TOTP expiry conflicts between curl page (daily approval) and python-sdk page (No Expiry)
- hdfcir: 8 hours (HDFC staff forum reply, 14 Oct 2026); earlier ~3 AM IST daily rollover (OpenAlgo code comment) unconfirmed
- hdfcsky: Not stated; access token valid for the session defined by HDFC SKY; full authentication workflow repeated on expiry
- kite: access_token expires 6 AM the next day (regulatory); request_token lives only minutes
- kotak: Trade session lifetime not found; WSO2 portal OAuth2 access token defaults to 3600 s (user-changeable). 'Sessions must end before next trading day' not on cited page
- motilal: Daily at 06:00 AM IST (exchange compliance reset); session token lasts 24h or until logout, whichever is earlier; refresh token expiry error MO8051
- mstock: Access token valid until 12 hours or same day, whichever first (renew daily); API key valid 1 year, 1 month, 1 day
- nuvama: Vendor session valid 24 hours; client auth token invalidated after 8 hours of inactivity or at 12:30 AM every day (page text; earlier 'midnight' wording corrected); re-login during active session returns same token
- samco: Session token expires at 08:00 IST the next calendar day, however it was obtained
- sharekhan: Access token valid for 24 hours (third-party review only; official Sharekhan pages do not state validity)
- shoonya: Not stated on auth flow, quick start or TOTP guide pages
- stoxkart: Tokens valid at least 12 hours; session invalidated after inactivity; HTTP 403 means relogin
- tradejini: 24 hours (expires_in 86400 s); expired token returns 401; re-authenticate with fresh credentials
- upstox: Standard access token: regenerate every day. Analytics token: valid 1 year per announcement (1-year wording not on the cited API-overview page, unverified). Static-IP change invalidates existing tokens.

auth.totp_automation

- angel: Official SDK sample generates login TOTP with pyotp; no manual browser step stated
- breeze: Manual login required: FAQ says session key must be generated manually every day per SEBI; TOTP option exists on login page but automated daily generation is not confirmed
- dhan: generateAccessToken accepts client ID, PIN and TOTP (added in API v2.5, Feb 2026). Community reports intermittent TOTP login failures (Oct 2025)
- fivepaisa: TOTP login is a supported route to RequestToken; field list and scriptability unverified, SEBI 2FA mandate makes unattended automation doubtful
- flattrade: Login is a browser step (UCC, password, PAN/DOB); no TOTP flow documented; token can be stored and reused
- fyers: FYERS staff point to a TOTP auto-login flow for daily token generation (community reply); official auth docs do not describe it
- groww: Yes: TOTP login via pyotp in Python SDK, no manual browser step (TOTP expiry wording conflicts across official pages)
- hdfcir: TOTP not supported for Tradeapis (staff, 9 Sep 2026); login needs OTP sent to registered mobile/email; TOTP/MPIN 'will come soon', no date
- hdfcsky: Login requires a per-session OTP sent to registered mobile or email; no TOTP automation documented
- kite: Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported
- kotak: Login fully scriptable via official SDK totp_login and totp_validate; requires registered TOTP and 6-digit MPIN
- motilal: TOTP login is official: 6-digit code from authenticator app using the 32-character TOTP secret from the API portal dashboard (code valid 30s); no manual browser step documented for the TOTP path
- mstock: Login automatable via SDK generate_session; TOTP verification optional via verify_totp

- nuvama: Client login is a manual redirect to Nuvama credentials; no TOTP or fully automated client login documented
- samco: Direct POST /session/token with API key and secret documents no OTP or browser step. OTP is needed only for dashboard actions (keys, OAuth apps, static IPs). No explicit automation guidance is given.
- sharekhan: Official SKAPI login page offers TOTP (T-OTP) as a login option alongside OTP; fully automated no-prompt login not stated. Third-party tool takes a TOTP key when linking the account.
- shoonya: Official OAuth path has no TOTP auto-login ('no TOTP auto-login flow'); legacy TOTP guide and pyotp-based SDK helper exist; terms say APIs are not meant for fully automated trades without manual intervention (exchange approval needed)
- stoxkart: Default SDK prompts for TOTP via input(); unmerged PR #6 (unofficial) adds pyotp automation; no documented enablement steps; terms discourage fully automated trades
- tradejini: Password + TOTP (twoFaTyp=totp) token request is a documented API flow with no browser step; docs do not explicitly say automation is allowed
- upstox: Yes. Upstox documents an API that generates an access token from the app's API key (header) plus the user's PIN and TOTP (POST /v2/totp-login/authorization/token).

auth.static_ip_required

- angel: Required for place/cancel/modify order and create/modify/cancel GTT from 1 Apr 2026; not required for other APIs; one client per static IP (family sharing allowed); 'IPv4 only' unsupported by cited page
- breeze: Required for order APIs from 1 Apr 2026; one primary static IP plus optional secondary; IP changeable only once per week; existing API keys deleted on change
- dhan: Required for order placement APIs (Orders, Super, Forever), not for order or trade fetch. One primary and one secondary IP (IPv4 or IPv6), unique per account; IP cannot be edited for 7 days; Modify IP API is self-service but works once every 7 days. Users report friction for travellers and network switches
- fivepaisa: Required for order placement APIs only; submitted per API key on Xstream dashboard; enforcement announced 1 Apr 2026; algo-provider users may not need it
- flattrade: Primary static IP mandatory, secondary optional; token issuance and orders only from registered IP; IP changeable once per calendar week; IPs unique across clients
- fyers: Required for the trading app (order placement) with the approved static IP; not required for non-trading data apps. Static IP may be changed no more than once per calendar week; API Bridge users had to create a new app plus updated static IP
- groww: Required for order placement (SEBI); primary plus optional secondary static IP whitelisted by Groww; orders from other IPs fail
- hdfcir: Static IP compulsory for trading API (staff, 9 Jun 2026); cloud static IP accepted (6 Oct 2026); wrong IP correctable only after 7 days, by email. Per-API-key dedicated IP not supported by cited source
- hdfcsky: Required per OpenAlgo docs (mandatory per SEBI circular); vendor blog says 'where applicable'; self-service IP management not documented
- kite: Required for all API-based order placement (not for WebSocket, orderbook, positions); one primary IP mandatory, one optional; changes capped at one per calendar week; IPv6 support unsupported by cited page. DATE CONFLICT: docs say effective 1 Apr 2026, FAQ says 1 Apr 2025
- kotak: Required for order APIs from 1 Apr 2026; session must be created from the whitelisted IP; IP change needs a new session; Kotak does not supply static IPs (user procures from ISP or VPN); up to 10 family members can share
- motilal: Required for order placement for all clients incl. retail; exactly 2 IPs per application (primary required, secondary recommended); no renewal; effective 1 Apr 2026; error MO2035 if unregistered
- mstock: mstock-specific static IP rule NOT FOUND on official pages; only general SEBI rule (orders from non-whitelisted IP rejected)

- nuvama: Static IP mandatory per SDK changelog (Python 2.0.11, Node 2.0.15, Java 2.0.10, dated 2026-03-30); scope and self-service registration not sourced; rate limit 3000 per 5 min per IP
- samco: Required: one primary static IP per OAuth app (secondary optional). Must be public IPv4 and unique. Order placement and modification accepted only from whitelisted IPs. IP change allowed once every 7 days (SEBI A.6), not reset by recreating an app. Managed self-service in the Web Dashboard.
- sharekhan: Sharekhan pages silent. Third-party Tradetron guide says Sharekhan support must map the IP to the account; whether required for orders or data is not stated. SEBI retail framework (sector-wide, not Sharekhan-specific) requires static IP
- shoonya: Required: API requests accepted only from registered static IPs (IPv4 via api host, IPv6 via trade host); optional backup IP. Mandatory for order placement from 1 Apr 2026 per changelog; up to 2 IPs per API key per changelog. Changing the IP goes through the broker
- stoxkart: Not stated on any fetched FAQ, terms, WebSocket, order, login, portfolio, instrument or rate-limit page
- tradejini: Required for individual-app API requests per docs (blog narrows enforcement to order requests from 1 Apr 2026); one primary and one backup IP per app; IP updates frequency-limited; unregistered IP returns 401 or 403 (docs conflict)
- upstox: Required for algo order placement: one primary (required) plus one optional secondary static IP per user. Orders from unregistered IPs rejected once enforcement is active (circular effective 1 Apr 2026). IP change once per calendar week; each change invalidates tokens. Read-only portfolio/funds APIs via Analytics token: api-overview says registered IP needed, but the algo circular says standard read-only APIs are not restricted; conflict unresolved.

auth.multi_user

- angel: One SmartAPI profile maps to one account needing its own static IP; empanelled vendors may use vendor IP; multi-user platform support not documented
- breeze: Single API key per client; only one active API key per static IP; no multi-user or vendor-app support documented
- dhan: Partner program documented: partners receive partner_id and partner_secret, serve their own users through per-user consent login, each user gets own access token and unique static IP
- fivepaisa: OAuth available for Partners and Individuals; multi-account support not stated
- flattrade: One API key per client; static IPs must be unique across clients; no vendor or multi-user app support documented
- fyers: Partner-app auth type is documented, but API credentials may not be shared with third parties or other API clients; individual app is creator-only; commercial multi-user offering requires exchange and statutory approvals
- groww: No evidence found
- hdfcir: One access token per account, no client_id parameter; multi-account login not documented; same token places orders and reads positions (no read-only key)
- hdfcsky: No multi-user or multiple-account support found in sources checked
- kite: Users may build platforms for other Zerodha clients only after obtaining exchange approvals; credentials are for the developer's own use; revenue share possible
- kotak: Credentials for client's own use only; multi-user or platform use only via fintech partners empanelled with exchanges and hosting on broker infrastructure
- motilal: Vendor and dealer APIs exist (vendor short name in header), but vendor activation requires emailing support and UAT order logs; not a self-serve multi-user flow. MO2000 max-session and multiple-keys claims unsupported by cited FAQ
- mstock: Partner onboarding flow (platform_key + redirect, per-user ApiKey and UserDetails) documented
- nuvama: Vendor-level session serves many client users: userID in endpoint paths, per-client OrdSrc/OrdSrcTkn headers, one-time client data sharing consent; vendor logout blocks all users under that vendor
- samco: Not addressed on fetched pages. OAuth 2.1 authorization-code flow exists, but multi-user support is not documented. Up to 5 key/secret pairs per account.
- sharekhan: No per-account user or key limit stated; no evidence found

- shoonya: Single-user: credentials and API access are for the client's own trades; immediate family may share one IP with broker consent; platforms for other clients allowed only after exchange approval
- stoxkart: No seat limit found; terms allow platforms offered to other clients after exchange approval; credentials are for the registered user only; no statement on FAQs
- tradejini: Individual-app flow is for the developer's own account only; no multi-client or sub-account support documented; user-based app flow not confirmed in current notes
- upstox: Partial: per-customer OAuth tokens (client_id is the app API key); Access Token Flow (Beta, Jan 2025) lets Initiators generate customer tokens. No explicit multi-account-per-app documentation found. Multi-client API orders reportedly billed at Rs 20 (unverified).

auth.api_app_creation_open_to_retail

- angel: Notes do not say how a retail client creates a SmartAPI app/key or whether any gate applies (only that access is free to all customers).
- breeze: All ICICIdirect customers can use Breeze API and create apps free of charge; apps created in the API user portal.
- dhan: Trading API access is free for every Dhan user; API key/consent-app flow is self-serve. Data API needs a separate paid subscription.
- fivepaisa: Clients create their own app on the xStream API dashboard (one non-algo app at 10 OPS, no Algo ID needed).
- flattrade: Key requested in Pi portal after accepting T&C, but the request shows Pending until Flattrade approves; keys above 10 orders/sec also need strategy/segment file upload.
- fyers: Any FYERS client creates an API app in the FYERS API dashboard (one trading app plus any number of data-only apps).
- groww: Needs an active Trading API subscription (paid, Rs 499/month per third-party review) before keys can be used; not open to every account by default.
- hdfcir: Register at developer.hdfcsec.com and create your app; existing InvestRight users already have access.
- hdfcsky: Log in to the developer portal and create an app under My Apps; app is deactivated by default until the user activates it (no approval described).
- kite: Kite Connect apps are created self-serve in the developer console (paid Rs 500/month subscription, fee graded separately). Eligibility for non-Zerodha clients not stated.
- kotak: Any customer with a Kotak Neo trading account can request API access; app created via Invest > Trade API > API Dashboard > Create Application.
- motilal: Client creates API key under My APIs after consent; retail key activates automatically (only Vendor API activation needs an email to support).
- mstock: Active mStock account holders generate a subscription key on tradingapi.mstock.com; no approval gate described.
- nuvama: Notes mention API Connect registration for key/secret but not whether it is self-serve or gated.
- samco: Apps (API key/secret pairs, up to 5 per account) are created from the Samco Web Dashboard; no approval step described.
- sharekhan: API is available to all active Mirae Asset Sharekhan customers; API key and secure key issued after signup.
- shoonya: API access is obtained by contacting support; the user must be enabled for API before use (community issue: 'User Not enabled on : API').
- stoxkart: Signup on the Superr developer portal (name, email, mobile, password); FAQ says API open to all customers, though a third party advises confirming with the relationship manager.
- tradejini: Active retail account holders register an app on the Developer Portal (Apps section) to get api_key and api_secret.
- upstox: Creating an app is the documented route and nominally open to retail, but retail app creation was reported paused from 5 Jan 2026 (staff post); no resumption notice found, so current status unconfirmed.

live_data.rest_quotes

- angel: Market quote and getLtpData endpoints exist at 10 req/s; max instruments per call not found
- breeze: GetQuotes exists (best bid/offer sample); instruments-per-call not stated; 100 calls/min shared across all endpoints
- dhan: LTP, OHLC and full quote via POST /marketfeed/ltp, /ohlc, /quote; up to 1000 instruments per request; 1 request per second
- fivepaisa: Market snapshot and market feed REST APIs offered; instruments per call not stated; OHLC 25 req/s
- flattrade: get_quotes takes one contract token per call; max instruments per call not documented
- fyers: Quotes GET up to 50 symbols per request (Standard), up to 1,000 per request via Quotes POST (Prime, from 16 Oct 2026)
- groww: get_quote (single instrument); get_ltp and get_ohlc up to 50 instruments per call; option chain and Greeks
- hdfcir: REST LTP snapshots only (ltp, prev_close); per-call instrument limit not documented (OpenAlgo caps batches at 10 by its own choice)
- hdfcsky: REST LTP endpoint exists in vendor docs; OpenAlgo says no REST full quote or depth; instruments per call not stated; blog marks Market Data API Coming Soon (conflict unresolved)
- kite: /quote up to 500 instruments per call (with depth); /quote/ohlc and /quote/ltp up to 1000 per call
- kotak: quotes(instrument_tokens, quote_type) with types all, depth, ohlc, ltp, oi, 52w, circuit_limits, scrip_details; instruments-per-call limit not stated
- motilal: getltpdata (LTP only) accepts one exchange and one scripcode per call; no multi-instrument limit documented; interactive calls third-party cited at 1 req/s
- mstock: No REST quote/LTP/OHLC endpoint found in fetched docs (market-data page is WebSocket only); 'Market Quotes and Instruments' sidebar page not readable
- nuvama: REST scrip quote/depth endpoint GET /quote/scrip/{symbol} exists (one symbol per call); instruments-per-call batch limit not stated
- samco: getQuote, indexQuote and multiQuote exist (10 req/s per session, 500 req/s per IP). Max instruments per call is not stated.
- sharekhan: REST-based API with real-time data stated; quote/LTP endpoint and instruments-per-call limit not named. 2023 SKAPI PDF quote rate (1/s) unresolved, see rest_rate_limits
- shoonya: One instrument per call; returns LTP, OHLC and top-of-book bid/ask. Docs advise WebSocket over polling. Rate unresolved: ~1 req/s per instrument on rate-limits page vs 15 req/s in changelog (scope unresolved)
- stoxkart: POST /quotes (full), /quotes/ohlc, /quotes/ltp; up to 50 instruments per call (request format conflicting in docs: query params vs JSON body)
- tradejini: No REST LTP or quote endpoint in docs index; REST OHLC at 50 req/s on vendor API page; absence not explicitly stated
- upstox: Full Market Quotes V3 and OHLC V3: up to 500 instruments per request; separate Option Greeks quote endpoint.

live_data.depth_levels

- angel: Best-5 bid/ask fields in SNAP_QUOTE mode (inferred from issue #71 title; no page states a level count, unverified); third-party connector claims Depth 20 (unverified)
- breeze: Market Depth quote type exists (qualifier .2); level count not stated; GetQuotes sample shows one best bid and one best offer
- dhan: 200 levels (WebSocket, NSE Equity and Derivatives only, 1 instrument per connection); 20 levels (WebSocket, NSE, up to 50 instruments per connection); 5 levels (REST quote and live feed Full packet)
- fivepaisa: Up to 20 levels of bid/ask (20MarketDepth page); separate level-5 endpoint also exists
- flattrade: 5 levels (bq1-bq5 in depth feed sample)
- fyers: 50 levels via Tick-by-Tick socket (NSE equity and NFO only); 5 levels on Data Socket; REST market depth returns bid/ask arrays (level count not stated)
- groww: 5 levels per side (inferred from sample keys 1-5; explicit level count not stated)
- hdfcir: 5 levels of bid/offer depth (WebSocket)
- hdfcsky: WebSocket market depth exists per OpenAlgo integration; number of levels not stated
- kite: 5 bid and 5 offer levels

- kotak: Depth enabled via isDepth flag on subscribe; max levels not stated
- motilal: Sample REST and WebSocket responses show 5 buy and 5 sell levels; no maximum level documented
- mstock: 5 bid and 5 ask levels (full/mode 3, Type A and Type B)
- nuvama: 5 levels (sample shows five ask and five bid levels); cited library page shows bidValues/askValues arrays with no level count
- samco: 5 levels of bid/offer depth in the market-data stream. /marketDepth at 3 req/s per session, 20 req/s per IP.
- sharekhan: Top 5 bid/ask levels (landing-page marketing claim); OI and market depth stated as available via API
- shoonya: 1 level only (touchline bp1/sp1); index tokens carry no depth fields. WebSocket overview mentions a market depth feed type but level count not stated
- stoxkart: 5 levels of bid/offer depth (REST full quote and WebSocket full mode)
- tradejini: L1 and L2 depth feeds exist; number of depth levels (5 vs 20) not stated
- upstox: 30 levels in full_d30 mode (Upstox Plus plan). Standard full mode gives 5 levels. No 20-level mode documented.

live_data.ws_instrument_limit

- angel: 1000 token subscriptions per WebSocket session (forum, search snippet); SDK sample has client-side quota_limit=50 (conflict, version unknown)
- breeze: Max 2000 scripts at a time across all OHLC and live streaming; per-connection split not stated
- dhan: Up to 5000 instruments per connection; each subscribe message up to 100 instruments; implied 25,000 across 5 connections
- fivepaisa: NOT STATED (no per-connection or total instrument cap on docs page)
- flattrade: not found in docs or SDK README
- fyers: Data Socket total: Standard 100 symbols, Prime 5,000 symbols (over-limit subscription not established); TBT: Standard 1 symbol, Prime 15 symbols (3 connections x 5 symbols); per-connection Data Socket limit not stated
- groww: Up to 1000 instruments subscribed at a time (feed; per-connection limit not found)
- hdfcir: 1500 instruments per WebSocket connection; total across connections not stated. Cited page flagged unsupported; WebSocket 'will be released soon' per staff (9 Jun 2026)
- hdfcsky: 300 instruments per WebSocket connection; total across connections not stated
- kite: 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key)
- kotak: 200 scrips per request (official FAQ); total simultaneous and per-connection limits not confirmed; one third-party review says 30 per request
- motilal: not stated; only rule is scrips must be registered via Mofsl.Register
- mstock: Not stated (targeted re-fetch found no cap)
- nuvama: Not stated; streaming config shows host ncst.nuvamawealth.com port 9443 with no limits
- samco: Per-subscription instrument limit not stated (symbols parameter has no stated max).
- sharekhan: 1000 symbols per single connection (FAQ); 2023 SKAPI PDF states 3,000 instruments, conflict unresolved; total across connections not stated
- shoonya: 500 tokens per connection (changelog); total not stated. Conflict unresolved: legacy-wrapper issue #217 reports silent drops after about 100 tokens
- stoxkart: No per-connection subscription limit (FAQ quote); add/delete request struct carries up to 20 scrip IDs per message (scripId SizeConst=20); total not stated; conflict unresolved
- tradejini: 3000 instruments per WebSocket connection; total across connections not stated
- upstox: Normal: LTPC 5000 individual / 2000 combined; Option Greeks 3000 / 2000; Full 2000 / 1500. Plus full_d30: 50 individual / 1500 combined. Table values confirmed; 'per connection' wording not on the cited page.

live_data.ws_connection_limit

- angel: Up to 3 concurrent connections per client code (forum, search snippet)
- breeze: Not stated in docs or search results
- dhan: 5 WebSocket connections per user; opening a 6th disconnects the first with code 805
- fivepaisa: NOT STATED
- flattrade: not found in fetched docs or SDK README
- fyers: 1 WebSocket instance at a time for Data Socket and General WebSocket; TBT: up to 3 connections (Prime), 50 channels per connection
- groww: Per-connection limit not found
- hdfcir: 3 simultaneous WebSocket connections per API key; same page also says 'without any limit' (self-contradictory)
- hdfcsky: 3 simultaneous WebSocket connections per API key
- kite: 3 WebSocket connections per API key
- kotak: Not stated in any fetched source
- motilal: not stated; only a session-cap error (MO2000 Maximum Active Session Exceeded) exists
- mstock: Not stated; no connection cap on the page
- nuvama: Not stated in library docs
- samco: WebSocket connections per session or account not stated.
- sharekhan: Per-connection cap of 1000 symbols stated; number of concurrent connections not stated
- shoonya: 1 connection per session
- stoxkart: Concurrent WebSocket connections per user not stated; each connection needs api_key and request_token
- tradejini: 5 concurrent WebSocket connections per user; FAQ states 10 requests per second on the socket (not on rate-limits page)
- upstox: 2 concurrent connections per user (Normal); 5 per user (Plus).

live_data.tick_by_tick

- angel: Real-time WebSocket stated; tick-by-tick vs snapshot/throttled not confirmed; forum reports missed ticks with large token counts
- breeze: Tick-by-tick stream; multiple stock tokens can be subscribed on a single WebSocket connection
- dhan: Described as tick-by-tick event-based data; server pings every 10 s and closes after 40 s without response
- fivepaisa: NOT STATED; MarketFeedV3 gives last traded rate with epoch timestamp; tick vs throttled not specified
- flattrade: Snapshot on subscribe (tk) then field-level deltas (tf); no tick-by-tick statement or interval given
- fyers: Tick-by-tick depth via TBT socket: full snapshot on subscribe, then delta packets; Data Socket update frequency not stated
- groww: Feed streams LTP, index value, depth, order and position updates; tick-by-tick granularity not stated
- hdfcir: No official tick-by-tick or tick history statement found
- hdfcsky: Not stated; vendor WebSocket continuous updates marked Coming Soon; feed frequency unknown
- kite: Not tick-by-tick: snapshot modes (ltp, quote, full); staff forum reply 'It is not a tick by tick data', one or two ticks per second on the internet feed; 2016 post says every 700 ms to 1 s. Official docs silent (staff/forum source, not docs)
- kotak: Live streaming over WebSocket; tick-by-tick vs throttled not stated

- motilal: Not documented in official docs (Broadcast section describes quote packets, no update interval). Third-party tick-by-tick claim is unverified (review about 888 days old)
- mstock: Type B mode 3 named 'Snap Quote'; update interval not stated, tick-by-tick not claimed
- nuvama: Only an intraday tick-by-tick historical endpoint is documented (library docs say the exchange provides every tick); live tick-by-tick streaming is not confirmed, so downgraded from tick-level to ⚠
- samco: Not stated. Stream described as continuous streaming on request, with no throttle interval given.
- sharekhan: Not found on Sharekhan API pages; streaming cadence not stated
- shoonya: Feed described as pushing touchline ticks, but tick-by-tick vs throttling not stated on any fetched page
- stoxkart: Tick frequency and throttling not stated; only a vendor speed claim without figures
- tradejini: Tick frequency not stated on websocket-sdks page; snapshot delivers last tick once
- upstox: Not stated. Feed modes are ltpc, option_greeks, full, full_d30; no tick-by-tick mode or update interval found.

live_data.oi

- angel: Live open interest returned per symbol in FULL quote mode (opnInterest); OI Buildup and PCR APIs are NSE only
- breeze: open_interest and chnge_oi in option chain sample; open_interest in order-feed sample
- dhan: OI packet (code 5) and Full packet (code 8) in live feed; OI and previous-day OI per strike in option chain
- fivepaisa: OI and day-high OI via GetScripInfoForFuture (futures only); not in MarketFeedV3 quotes
- flattrade: Open interest listed among touchline feed fields for subscribed instruments; TPSeries also returns oi
- fyers: OI in market depth (oi, pdoi, oipercent, gated by oiflag), option chain per-strike OI (oi, oich, oichp, prev_oi) and callOi/putOi totals
- groww: open_interest, previous_open_interest, oi_day_change in get_quote; OI per strike in option chain; OI in FNO candles
- hdfcir: Open interest over WebSocket (quote field oi; topics NSE_FO_OI, BSE_FO_OI, NSE_CD_OI); REST LTP has no OI. WebSocket availability itself unconfirmed by recent staff replies
- hdfcsky: OI delivered over WebSocket per OpenAlgo integration (not REST); vendor OI field not documented in sources checked
- kite: Open Interest and OI day high/low in WebSocket quote layout; open_interest in REST quotes (F&O only)
- kotak: Open interest via quotes() quote type 'oi' in official SDK
- motilal: Open interest in WebSocket LTP packet (LTP_Open Interest) and dedicated OpenInterest quote type with high/low OI
- mstock: Open Interest, OI high and OI low in Type A quote packet; Open Interest and OI percent in Type B quote packet
- nuvama: Reduced quotes streamer includes open interest (oi) and OI change fields
- samco: Open interest and change in OI provided in quote stream. Market-data stream schema has no OI field (conflict between the two streams).
- sharekhan: Open interest accessible through the API (FAQ statement); endpoint detail not captured
- shoonya: Option chain returns OI per strike but updates less often than LTP; historical response includes oi field marked unverified against a live capture; live feed OI not confirmed
- stoxkart: Open interest included in full quote (REST /quotes); WebSocket OI not confirmed
- tradejini: Open interest in market data fields; OI Change in derivative candles
- upstox: Open interest in Full Market Quotes V3; previous_oi added for F&O.

live_data.greeks

- angel: Option Greek API named in changelog 1.4.8; live vs snapshot and endpoint details not verified
- breeze: Greeks not stated in docs; no IV or IVP fields in option chain per user-reported GitHub issue 226
- dhan: Delta, theta, gamma, vega and IV only via POST /optionchain (REST snapshot, one unique request per 3 s); not in live WebSocket feed
- fivepaisa: NOT STATED on websocket page; Options greeks page linked but not read
- flattrade: GetOptionGreek computes Greeks from caller-supplied volatility and interest rate; no live IV in feed or option chain
- fyers: Live Greeks in option chain with greeks=1 (delta, gamma, theta, vega, iv per strike); Greeks also on Expired F&O data via include_greeks
- groww: get_greeks (delta, gamma, theta, vega, rho, iv) and Greeks in option chain
- hdfcir: Greeks over WebSocket: delta, gamma, vega, theta, rho (topics NSE_FO_GREEK, BSE_FO_GREEK). WebSocket availability itself unconfirmed by recent staff replies
- hdfcsky: Protobuf schema in OpenAlgo defines option GreekData packets (delta, gamma, vega, theta, rho); vendor docs do not document Greeks; third-party client computes IV and Greeks client-side
- kite: No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog)
- kotak: Not provided by API; third-party says user must build IV solver and Greeks client-side
- motilal: No Greeks or IV field in the docs, FAQ or Broadcast packet descriptions
- mstock: Greeks/IV NOT FOUND; option chain APIs shown as 'Coming Soon'
- nuvama: Watchlist scrip responses include greeks delta, gamma, theta and vega
- samco: delta, gamma, iv, theta, vega in the market-data stream schema. Greeks absent from the quote stream.
- sharekhan: Not found on Sharekhan API pages
- shoonya: No Greeks or IV provided; option-greeks docs page returns HTTP 404; no other source
- stoxkart: No Greeks or option analytics on any fetched API page or FAQ; instrument data lists only strike_price and option_type
- tradejini: Option greeks feed and greeks snapshot providing iv and delta
- upstox: Live Greeks/IV via Option Greeks quote endpoint, option_greeks feed mode and full feed.

live_data.indices

- angel: Only historical index candles documented ('past data of the indices'); no live index feed found in Market Data docs
- breeze: Index data parsed for exchange code 3 in live feed; index symbols differ from NSE names (e.g. NIFFIN, CNXBAN); user reports of missing index strikes (issue 217)
- dhan: IDX_I segment (index value) documented in annexure. Caveat: DH-905 errors on IDX_I chart calls (Jun-Aug 2026) and an open GitHub issue reports NIFTY Quote API failing (Oct 2026)
- fivepaisa: 'Indices' method named in feed method list but undocumented; no index fields documented
- flattrade: Index instruments subscribable in feed (Nifty-50 NSE|26000, BankNifty NSE|26009); Get Index List endpoint
- fyers: Data Socket navigation lists an 'Indices Update' sub-page, but its content was not fetched; India VIX present in option chain response; index subscription not confirmed
- groww: Index quotes via CASH segment and index value stream
- hdfcir: Index feeds NSE_INDEX and BSE_INDEX, documented only in third-party OpenAlgo exchange mapping
- hdfcsky: Index feeds NSE_INDEX and BSE_INDEX listed on OpenAlgo broker page only; vendor docs do not confirm

- kite: Index instruments (NIFTY 50, SENSEX) stream with a distinct packet structure
- kotak: Live index quotes for developers (official)
- motilal: Index LTP REST endpoint (getindexltpdata), JSON and CSV index data, and WebSocket Index quote type (Mofsl.IndexRegister, Rate field)
- mstock: Index packet (48 bytes) for non-tradable index tokens: LTP, day OHLC, change, circuit limits
- nuvama: INDEX, OPTIDX, FUTIDX asset types exist in contract data; explicit live index value in feed not documented
- samco: REST indexQuote and indexCandleData only. Index streaming is not documented on fetched pages.
- sharekhan: Not found as API content (only site navigation mentions indices)
- shoonya: Index availability in live feed not stated; community issue #216 reports trouble getting spot NIFTY/BANKNIFTY from time price series (title only)
- stoxkart: Index streaming via Add Index LTP/Quote/Full (request codes 74-76; packets IDXLTP 64, IDXQUOTE 65, IDXFULL 66)
- tradejini: Index scrip group in symbol store; index quotes in WebSocket feed claimed only by third-party OpenAlgo docs
- upstox: Index keys on feed (NSE_INDEX|Nifty Bank sample, NSE_INDEX|India VIX) and global indices.

historical.intervals

- angel: ONE_MINUTE, THREE_MINUTE, FIVE_MINUTE, TEN_MINUTE, FIFTEEN_MINUTE, THIRTY_MINUTE, ONE_HOUR, ONE_DAY
- breeze: 1minute, 5minute, 30minute, 1day in historical API; 1second appears only in the live candle stream, not the historical list (spot-check); weekly interval reported failing (issue 211)
- dhan: Intraday: 1, 5, 15, 25, 60 minute; daily candles
- fivepaisa: 1, 5, 10, 15, 30, 60 min and daily
- flattrade: 1, 3, 5, 10, 15, 30, 60, 120 minutes (TPSeries); daily via EODChartData
- fyers: Seconds 5S, 10S, 15S, 30S, 45S (seconds history limited); minutes 1, 2, 3, 5, 10, 15, 20, 30, 45, 60, 120, 180, 240; daily 1D, weekly 1W, monthly 1M
- groww: 1, 2, 3, 5, 10, 15, 30 min, 1h, 4h, 1d, 1w, 1 month (backtesting API)
- hdfcir: No candle API today (OpenAlgo get_history raises); staff: Chart Data API 'under development', no date
- hdfcsky: Native chartType MINUTE and DAY only (vendor fetchCandles doc); 1m, 3m, 5m, 10m, 15m, 30m, 1h, D, W, M are OpenAlgo resampling
- kite: minute, 3minute, 5minute, 10minute, 15minute, 30minute, 60minute, day
- kotak: Conflicting: official support says historical data unavailable; SDK lists historical_data; third-party GitHub claims 1-5 min, 30-60 min and daily ranges (unverified)
- motilal: Daily EOD OHLC and volume only (geteoddatabyexchangename, CSV variant); no intraday candle intervals documented
- mstock: minute, 3, 5, 10, 15, 30, 60 minute, day
- nuvama: Intraday: M1, M3, M5, M15, M30, H1; EOD: D1, W1, MN1
- samco: Candle intervals not stated on the candleData page (endpoints only: /history/candleData, /intraday/candleData).
- sharekhan: EOD scrip-wise plus intraday for last 7 days; other intraday intervals (incl. 1-minute) not specified
- shoonya: 1, 3, 5, 10, 15, 30, 60, 120, 240 minutes (Time Price Series); plus daily EOD series
- stoxkart: Historical page /api-documentation/historical returns 404 and is absent from the route manifest; getCandleData appears only in the rate-limit table (3 req/s); FAQ says build candles from WebSocket LTP
- tradejini: Interval chart takes minutes (1-minute shown in example); stream OHLC at 1M, 5M, 30M
- upstox: Includes 1-minute on the standard candle endpoint (marked deprecated; Intraday Candle API recommended for current day). Expired-contract API: 1, 3, 5, 15, 30 minute and day.

historical.intraday_depth

- angel: Per-request day caps: 1m 30, 3m 60, 5m 100, 10m 100, 15m 200, 30m 200, 1h 400; total look-back not stated (earlier blog: up to 8,000 candles per request)
- breeze: Vendor claim: 3 years of second-level LTP data; 1-second option data reported unavailable (issue 224)
- dhan: Last 5 years of minute data; max 90 days per request
- fivepaisa: Lookback NOT STATED; max request window 6 months per call
- flattrade: not found; TPSeries documents parameters only, no retention stated
- fyers: Standard: 1 year (from 2025); Prime: 5+ years (entire available history). Minute history available from 3 Jul 2017
- groww: From 2020 via backtesting API (1-5 min max 30 days per request). Legacy deprecated endpoint: last 3 months only
- hdfcir: None: no historical/candle API exists, so there is no intraday lookback
- hdfcsky: Total lookback not stated; per-request span cap 31 days for MINUTE (measured by OpenAlgo, not vendor doc)
- kite: Archived data spanning several years (exact minute-candle lookback not stated in notes)
- kotak: Unresolved: Kotak support says 'Historical data is unavailable at the moment'; unverified third-party per-request ranges of 30 days for 1-5 min candles
- motilal: No intraday candle endpoint documented; third-party intraday candle claim is unverified
- mstock: NOT FOUND in official docs (max 1000 bars per request only)
- nuvama: Lookback not stated; no max start date found in library docs
- samco: Intraday history depth not stated.
- sharekhan: 7 days
- shoonya: Shallow lookback window, not quantified in docs; epoch-second from/to required. Community issue #215 reports no data before 17 Mar 2025 (title only)
- stoxkart: Not documented (historical page 404; no endpoint docs)
- tradejini: Unverified: up to 30 days of 1-min data per a 2024 forum answer; not in current docs
- upstox: Contradictory on the same page: 1-minute = final month before endDate (or six months per NOTE); 30-minute = past year (or six months per NOTE). Unresolved.

historical.daily_depth

- angel: ONE_DAY: up to 2000 days per request; total history depth not stated
- breeze: Not stated; only the 3-year second-level LTP claim found
- dhan: Back to the instrument's listing (inception)
- fivepaisa: Lookback NOT STATED; no size cap on day interval
- flattrade: not found; EODChartData lookback not stated
- fyers: Standard: 5 years (from 2021); Prime: 25+ years (entire available history)
- groww: From 2020 via backtesting API (max 180 days per request); legacy 1-day endpoint full history, 1080 days per request
- hdfcir: None: no historical/candle API exists, so there is no daily lookback
- hdfcsky: Total lookback not stated; per-request span cap 2000 days for DAY (measured by OpenAlgo, not vendor doc)
- kite: Several years (exact daily lookback not stated in notes)
- kotak: Unresolved: Kotak support says 'Historical data is unavailable at the moment' vs third-party multi-year archive claim
- motilal: EOD endpoint exists; lookback/retention not stated

- mstock: NOT FOUND in official docs
- nuvama: Lookback not stated; no max start date found in library docs
- samco: Vendor marketing claim: adjusted data back 30 years for NSE Equity and NSE Futures. Not verified in API docs.
- sharekhan: EOD scrip-wise data since inception; not adjusted for corporate actions; NSE/BSE equity, NSE futures, NSE currency, MCX commodity
- shoonya: No maximum range stated; described as spanning weeks, months or years
- stoxkart: Not documented (historical page 404; no endpoint docs)
- tradejini: Daily candle support and lookback not confirmed on interval chart page
- upstox: Daily: past year up to endDate. Weekly: previous 10 years. Monthly: last 10 years. No max span per request stated.

historical.expired_fno

- angel: Historical covers NSE Equity and NFO Futures; expired contracts not stated
- breeze: Third-party only: expired NFO option 1-second data reached via v2 endpoint (single user); Tradehull claims up to 3 years of options data; not official
- dhan: Expired options only via POST /charts/rollingoption: up to 5 years, 30 days per call, strikes relative to ATM (ATM+-10 near-expiry index options, ATM+-3 otherwise). Expired futures not covered. GitHub issue #153 reports missing rows (Jul 2026)
- fivepaisa: Not documented; GitHub issue #321 (open, 2025-11-01) reports empty data for expired futures
- flattrade: not found
- fyers: Expired F&O Contracts Data APIs documented (expired futures and options contracts and their candles; Greeks via include_greeks). Limited on free Standard plan (daily 2 years, intraday 10 API requests/day per plans page); fuller depth (daily 7+ years) needs paid Prime. 6 Sep 2026 add date and caps not on the cited endpoint page (unverified there)
- groww: Get Expiries and Get Contracts APIs list expired FNO expiries and contracts from 2020; candles by Groww symbol
- hdfcir: Absent: staff say no historical-data API is available yet (Chart Data API under development)
- hdfcsky: No evidence found; no expired-contract endpoint in vendor docs sitemap
- kite: continuous=1 returns day candles for expired NFO/MCX futures; expired instrument_tokens are not retrievable unless the user caches the instrument dump regularly
- kotak: Not documented in any fetched source
- motilal: No evidence found; scrip master has expiry fields but no expired-contract history endpoint
- mstock: NOT FOUND in official docs (historical endpoint covers NSE, NFO, BSE, BFO)
- nuvama: Not found in library docs; scrip expiry appears only as an order-object field
- samco: Not covered on fetched pages.
- sharekhan: Not found; FAQ mentions continuous F&O data on contracts but expired-contract coverage not stated
- shoonya: Not stated on historical data page; only an equity example is given
- stoxkart: Not documented (historical page 404; no endpoint docs)
- tradejini: No expired-contract endpoint found; derivative candles include OI change, expired coverage not stated
- upstox: Yes: Get Expiries, Get Expired Option Contracts, Get Expired Future Contracts, Get Expired Historical Candle Data. Requires the paid Upstox Plus plan.

historical.continuous_futures

- angel: Not found
- breeze: Not stated in docs or product page
- dhan: Historical docs do not mention continuous futures
- fivepaisa: NOT STATED
- flattrade: not found
- fyers: Continuous F&O data via cont_flag=1 on historical API
- groww: Not found on any fetched page
- hdfcir: Absent: no historical-data API is available yet, so there is no continuous futures series
- hdfcsky: No evidence found; no continuous-contract symbol in OpenAlgo data code
- kite: continuous=1 for NFO and MCX futures
- kotak: Not documented in any fetched source
- motilal: No evidence found in docs or FAQ
- mstock: NOT FOUND in official docs
- nuvama: Continuous attribute applies to FUTIDX, FUTSTK, FUTCUR, FUTCOM
- samco: Not covered. Only a Future Chain endpoint is listed.
- sharekhan: FAQ mentions continuous data for F&O segment on contracts; no endpoint detail; expired-contract coverage unclear
- shoonya: Not stated on historical data page
- stoxkart: Not documented (historical page 404; no endpoint docs)
- tradejini: No continuous futures series or endpoint found
- upstox: Not found in pages checked; expired-contract APIs cover individual expired contracts, not a continuous series.

historical.cost

- angel: Free (0 Rs)
- breeze: Free
- dhan: Included in Data API subscription: Rs 499/month plus taxes
- fivepaisa: Free (Market Data API Rs 0)
- flattrade: No separate historical charge stated; covered by the free trading and market data claim
- fyers: Free: unlimited stock history downloads per day on the Standard plan; plan limits apply to depth, not price
- groww: Not in Free Trial; included in paid Rs 499/month plan (no per-call fee found)
- hdfcir: Not applicable: there is no historical product to price
- hdfcsky: Not stated in any docs checked
- kite: Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500
- kotak: Trade API free at present, but official page says historical data is unavailable, so no historical cost is stated
- motilal: free; EOD endpoints fall under the free RESTful API statement (no separate historical price published)
- mstock: Free (Rs 0 Data API charge; historical is a Data API)
- nuvama: No charge stated in library docs; cost not explicitly documented as free

- samco: Free (zero cost).
- sharekhan: Free: no additional charges for API; no separate historical charge stated
- shoonya: Historical data cost not stated; only that historical has a lower burst allowance. Free-API secondary claim does not confirm historical pricing
- stoxkart: No historical endpoint documentation, so no pricing stated; general FAQ says no additional API charges
- tradejini: Free (included with API access)
- upstox: Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found).

trading.order_types

- angel: LIMIT confirmed in SDK example; MARKET and IOC prohibited for algo trading (effective date not on cited page); SL/SL-M not confirmed
- breeze: Limit orders; market orders not permitted via API; GTT single and cover_oco; SDK 1.0.68 Aggressive Limit Order; SL and SL-M not confirmed in notes
- dhan: LIMIT, MARKET, STOP_LOSS, STOP_LOSS_MARKET
- fivepaisa: Limit, Stop Loss, Stop Loss-Market, After Market, IOC; intraday or delivery. Market orders reportedly disallowed under SEBI (staff post on tradebetter; place-order page still lists Stop Loss-Market)
- flattrade: LMT and SL-LMT only via API (v2 restricts to limit and SL-limit; no MKT or SL-M); price type can be modified
- fyers: Single order (sync and async) market, limit, SL, SL-M; basket up to 10 orders; multi-leg 2L/3L limit IOC; GTT single and OCO; smart orders; CO and BO deprecated 2 Aug 2026; SL/TP managed on positions; isSliceOrder on NSE CM, NFO, BFO
- groww: MARKET, LIMIT, STOP_LOSS, STOP_LOSS_MARKET; validity DAY; products incl. CNC, MIS, NRML
- hdfcir: MARKET, LIMIT, SL-L, SL-M (cited page flagged unsupported on re-check; feed OrderType enum also lists SPREAD)
- hdfcsky: MARKET, LIMIT, SL (stop-loss limit), SL-M; AMO and iceberg not mentioned
- kite: MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders
- kotak: L, MKT, SL, SL-M (SDK); product types delivery, intraday, F&O, cover, bracket, AMO, MTF; MARKET orders barred for retail algo per SEBI (official page conflicts with market-order FAQ title)
- motilal: LIMIT, STOPLOSS listed; MARKET orders not permitted via API from 1 Apr 2026 (docs still list MARKET in the type field); all API orders must specify a price
- mstock: MARKET, LIMIT, SL, SL-M; varieties regular and amo; products CNC, NRML, MIS, MTF; validity DAY and IOC
- nuvama: LIMIT, MARKET, STOP_LIMIT, STOP_MARKET; plus BO and CO bracket/cover legs
- samco: Place-order page lists orderType L (Limit) and SL (Stop Loss Limit) only; MARKET and SL-M not listed; AMO via afterMarketOrderFlag; separate BO and CO endpoints
- sharekhan: Place, modify, cancel, square-off, square-off all, cancel all; intraday and delivery; products: normal/investment, BigTrade, Big Trade+, EMF, Trailing Stop Loss (equities)
- shoonya: Place order: LMT and SL-LMT only (MKT rejected); GTT adds MKT, SL-MKT, DS, 2L, 3L
- stoxkart: LIMIT, MARKET, STOPLOSS_LIMIT, STOPLOSS_MARKET; varieties normal, amo, bo; products DELIVERY, INTRADAY, CARRYFORWARD, BO; validity DAY, IOC, EOTODY, EOSESS (BO modify parent_order_id conflict unresolved)
- tradejini: market, limit, stoplimit; bracket, cover, OCO and GTT advanced orders; convert position
- upstox: MARKET, LIMIT, SL, SL-M. Products I (Intraday), D (Delivery), MTF. AMO and iceberg not stated.

trading.gtt

- angel: GTT create/modify/cancel documented; timeperiod 365; 9/s, 500/min, 5000/hr
- breeze: GTT single and three-leg cover_oco documented; limit orders only; order book window max 10 days; SDK 1.0.60 GTT integration
- dhan: Forever Orders (GTT) with SINGLE and OCO flags; create, modify, cancel and list; static IP required for place, modify and cancel
- fivepaisa: NOT STATED; GTT page blocked (Access Denied on retry)
- flattrade: PlaceGTTOrder, ModifyGTTOrder, CancelGTTOrder, GetPendingGTTOrder, GetEnabledGTTs; validity DAY or GTT
- fyers: GTT single and OCO (leg1; leg2 for OCO), CNC, MARGIN and MTF, active up to one year; endpoint /api/v3/gtt/orders/sync
- groww: Smart Orders GTT (single trigger, optional bracket child legs, API default 1-year validity) and OCO (target + stop-loss)
- hdfcir: No GTT order API; community mirror of docs has no GTT page (feed Validity enum includes GTT only)
- hdfcsky: Vendor docs have a Create GTT Order page (trigger_price, sl_trigger_price) but the blog marks GTT Coming Soon; conflict unresolved
- kite: Single and two-leg (OCO) GTT; statuses active/triggered/disabled/expired/cancelled/rejected/deleted; list includes prior 7 days
- kotak: GTT exists on the Neo platform (trigger validity one year); no Trade API GTT endpoint found (SDK has only GTC/GTD validity values)
- motilal: Not native to MO API; third-party review says GTT via strategy layer
- mstock: NOT FOUND on Orders page or intro
- nuvama: GTT (good till triggered) not found; only GTC, GTD and GTDys validity values appear
- samco: /gttoco/ addGtt, modifyGtt, deleteGtt, listGttOco. 3 req/s per session.
- sharekhan: Not found on Sharekhan API pages (footer MYGTD link is a general policy page)
- shoonya: Place, cancel and list GTT endpoints; price trigger vs LTP; prctyp LMT, MKT, SL-LMT, SL-MKT, DS, 2L, 3L; success returns al_id
- stoxkart: No GTT term or docs; rule endpoints (createRule, modifyRule, cancelRule, ruleDetails, ruleList) appear only in the rate-limit table and are undocumented
- tradejini: GTT place (POST), modify (PUT), cancel (DELETE), pending GTT/OCO orderbook (GET)
- upstox: GTT SINGLE or MULTIPLE (multi-leg, FO/OCO modes), triggers BELOW/ABOVE/IMMEDIATE, trailing stop-loss; active until expiry date.

trading.basket

- angel: No basket-order API in docs navigation (absence evidence: only Orders, GTT, Margin Calculator etc.)
- breeze: No API basket method found; basket order flow is shown only in the ICICIdirect app
- dhan: No direct basket order API; baskets must be built by placing orders individually
- fivepaisa: py5paisa basket code examples only; create/rename/clone/delete and one-click platform execution not confirmed
- flattrade: No batch placement endpoint documented; SDK place_basket loops single orders (bug reported, issue 21); GetBasketMargin is margin only
- fyers: Multi-order (basket) sync: array of up to 10 orders per call; endpoint /api/v3/multi-order/sync; 429 on order rate limit
- groww: Basket documented only for FNO margin calculation; no basket order placement API found
- hdfcir: No basket order API documented; community mirror has no basket page (feed status code BASKET_ORDER_ACCEPTED only)
- hdfcsky: Basket orders documented (create, add, execute, fetch, rename, delete); name max 20 chars; hedge basket only for NIFTY 50 and NIFTY BANK
- kite: No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only
- kotak: Basket orders documented for Neo mobile and web only; not in API SDK docs
- motilal: FAQ: There is no separate API for bulk orders; basket only via third-party strategy layer
- mstock: Basket APIs section in Type A docs; SDK exposes create, fetch, rename, delete, calculate basket (docs page returned 403 on re-fetch)

- nuvama: Basket order request holds a list of orders; GTD date in dd-MM-yyyy
- samco: basket/createBasket, executeBasketOrder, rearrangeBasketOrder. 5 req/s per session.
- sharekhan: No basket order stated; landing page marks Advanced Order Placement as Coming Soon, basket not named
- shoonya: No basket endpoint found; Python SDK documents no basket method. Absence in docs is not confirmed as explicit
- stoxkart: No API basket endpoint found; browser-side Publisher plugin lets users add up to 10 instruments to a basket (not an API)
- tradejini: Basket margin endpoint only (POST /api/oms/basket-margin); no basket placement endpoint described
- upstox: Multi-order place/cancel with auto-slicing (documented in rate-limit and multi-order pages); Basket Orders advertised on trading-api page.

trading.multi_leg_options

- angel: Not found
- breeze: Placement, modification and cancellation of Margin and Option Plus orders via API prohibited; no multi-leg endpoint documented
- dhan: No multi-leg strategy order endpoint found in orders docs (only multi-leg margin calculator, added v2.3.0, and BO/CO/super orders)
- fivepaisa: py5paisa trades multiple legs of pre-defined strategies (SDK-level, not platform API docs)
- flattrade: MultiLegOrderBook endpoint and OCO (PlaceOCOOrder) exist; no spread or straddle placement documented
- fyers: Native multi-leg orders with orderType 2L or 3L; NFO only; all legs same underlying; each leg limit (type 1) with IOC validity; INTRADAY or MARGIN product; no hedge margin benefit (use multi-order API for that)
- groww: No multi-leg order API found; only GTT child legs documented
- hdfcir: No multi-leg endpoint in OpenAlgo InvestRight module; feed OrderType enum lists SPREAD only
- hdfcsky: No native multi-leg strategy endpoint in vendor sitemap; basket and hedge basket (NIFTY 50 and NIFTY BANK only) can carry several legs
- kite: Only cover orders (two-leg with stop) found; native spread/straddle orders not found in notes
- kotak: No native multi-leg endpoint in fetched API sources; app strategy bot only (user reports)
- motilal: No evidence found; only a bracket-order error code appears
- mstock: NOT FOUND (no cover, bracket or multi-leg on Orders page)
- nuvama: Not found; only bracket and cover leg flags (flLg, slLg, tgtLg) and CO/BO product codes
- samco: Not covered. No native multi-leg strategy endpoint found (basket endpoints only).
- sharekhan: Not found on Sharekhan API pages
- shoonya: Only via GTT prctyp 2L and 3L; leg behavior undocumented
- stoxkart: Only bracket orders listed; no multi-leg order type named
- tradejini: No multi-leg, spread or straddle order in advanced order list (bracket, cover, GTT, OCO); absence not explicitly stated
- upstox: Partial: GTT MULTIPLE is a multi-leg order type (FO/OCO), and multi-order placement exists. No native option-strategy (spread/straddle) order API stated.

trading.margin_calculator

- angel: Advertised as a '50-position Margin Calculator API' on Angel One's SmartAPI marketing page; endpoint not in SDK README (changelog 1.4.8 lists only a brokerage calculator), so undocumented
- breeze: Returns span_margin_required, non_span_margin_required, order_margin, trade_margin, block_trade_margin; MCX calls reported returning HTTP 401 (issue 241)

- dhan: POST /margincalculator (single order) and POST /margincalculator/multi (equity, F&O, commodity); multi-leg added in v2.3.0; multi-order values indicative for current session only
- fivepaisa: Margin for single and multi-leg orders in py5paisa; issue #324 (open, no maintainer reply) says MultiOrderMargin always fails
- flattrade: GetBasketMargin (basket margin) and SpanCalc (NFO, CDS, MCX); SpanCalc ignores buy and sell qty inputs
- fyers: Multi-order margin POST /api/v3/multiorder/margin (max 50 orders per request); SPAN margin POST /api/v2/span_margin (max 20 symbols per request)
- groww: POST /v1/margins/detail/orders for single order or FNO basket (SPAN, exposure, total); GET /v1/margins/detail/user
- hdfcir: Not documented: community mirror lists brokerage/margin calculators as not documented; funds endpoint returns available, utilised and pledge limits only
- hdfcsky: Margin Calculator documented; one POST takes an array of legs and returns combined portfolio margin plus per-leg values (per OpenAlgo code)
- kite: POST /margins/orders and POST /margins/basket (compact mode and consider_positions supported)
- kotak: margin_required method calculates margin for a trade (doc page Margin_Required.md)
- motilal: Margin Summary and Margin Detail endpoints report account margin (credit limit field); no documented pre-trade margin calculator for an order or basket
- mstock: POST openapi/typea/margins/orders; returns span, exposure, premium, VAR, charges, total
- nuvama: Not found; limits objects expose Margin Available and Margin Utilized only
- samco: /spanMargin (3 req/s per session) and basket/spanCalculator (5 req/s per session).
- sharekhan: Website margin calculator only; no API endpoint documented (no explicit absence statement)
- shoonya: span_calculator in Python SDK only; no margin endpoint in API navigation
- stoxkart: No calculator on API pages; only a Margin calculator link in the broker site footer
- tradejini: Basket margin POST returns requiredMargin, finalMargin, availableMargin, combinedRequiredMargin
- upstox: Margins API checks margin requirements for a trade; Charges API for brokerage, taxes, STT. Basket margin not stated.

trading.postbacks_webhooks

- angel: Postback URL set at API key creation (HTTPS 443): real-time order updates only; AMO notifications sent at 9:00 AM
- breeze: Order notifications via websocket subscribeFeeds with getOrderNotification; no webhook or postback found
- dhan: Postback: Dhan POSTs JSON to the URL set at token generation on each order status change; also a live order-update WebSocket. No postback retry behaviour documented; localhost not supported
- fivepaisa: Stream only: order updates pushed over websocket (OrderTradeConfirmations); no webhook documented
- flattrade: Postback URL per API key receives order updates; WebSocket also streams order updates
- fyers: Webhook POST (JSON) on order status: Pending, Rejected, Cancelled, Traded (plus Transit, Expired in payload); server must return HTTP 200; failed posts can blacklist URL for 30 min; activation requires a successful login
- groww: No webhooks or postbacks found; order and position updates only via the feed (stream only)
- hdfcir: Postback URL field exists on app form and is optional (dummy URL accepted); payload not documented
- hdfcsky: Optional postback URL for order notifications set at app creation (OpenAlgo docs only; vendor order guide does not document it)
- kite: HTTP POST JSON postbacks to postback_url (COMPLETE, REJECTED, CANCELLED, UPDATE); also text-mode updates over WebSocket
- kotak: Order and position updates via WebSocket order feed (create_order_feed); no webhook or postback documented
- motilal: Webhook: server-to-server POST of trade status to registered HTTPS URL (production webhook endpoint listed)
- mstock: Order status over WebSockets (stream only); no webhook/postback found

- nuvama: Stream only: the only callback is a streamer parameter (callback method to receive the feed); no postback or webhook found
- samco: Postbacks and webhooks absent from v3.2 release notes and docs. No order-update stream.
- sharekhan: Third-party tool configures a redirect URL and postback URL when creating the Sharekhan API key; official SKAPI pages do not describe postback payloads
- shoonya: Order-status updates over WebSocket; a webhook section is mentioned in the docs listing but not verified
- stoxkart: Optional Postback URL on the app receives order status for orders placed via the API; no other webhook docs
- tradejini: No webhook or postback described; order, position and trade event feeds over WebSocket in TypeScript and C# SDKs only
- upstox: POST webhook URL set at app registration (no auth, must return 2XX) for order updates (default on) and GTT updates (opt-in). Payload identical to WebSocket order updates.

trading.segments_exchanges

- angel: NSE equity and NFO futures named in intro; full segment list (BSE, MCX, CDS) not found
- breeze: NSE and NFO (equity and F&O); BSE and MCX securities not available on Breeze API; CDS not stated
- dhan: NSE_EQ, NSE_FNO, BSE_EQ, BSE_FNO, MCX_COMM, currency segments, IDX_I (index values). SDK v2.3.0 notes mention US global stocks trading
- fivepaisa: Exchanges NSE (N), BSE (B), MCX (M); segments Cash (C), Derivatives (D), Currency (U)
- flattrade: NSE, NFO, BSE, MCX for orders; CDS in SpanCalc; CM, FO, FX segments in limits; BFO options reported not discovered (issue 19)
- fyers: Documented: NSE CM, NFO, BFO (slicing), NSE equity and NFO (TBT), NFO (multi-leg). MCX order flow implied by a Mar 2026 outage report. BSE cash and CDS not confirmed
- groww: CASH (equity) and FNO on NSE/BSE; MCX commodities not available
- hdfcir: NSE, BSE, NFO, BFO, CDS, MCX
- hdfcsky: NSE, BSE, NFO, BFO, CDS, MCX (stocks, futures, options) per OpenAlgo broker page
- kite: NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed
- kotak: Equity and F&O per official docs; currency and commodity FAQ exists but answer not captured; MCX referenced only in a user report
- motilal: NSE CM/CD/FO, BSE, MCX, NCDEX (FAQ); exchange parameters NSEFO, NSECD, MCX, BSEFO
- mstock: NSE, BSE, NFO, BFO equities and derivatives; Type B also lists NSECD (currency)
- nuvama: BSE, NSE, MCX; equity, F&O, currency, commodities
- samco: Valid exchange values on place-order: BSE, NSE, NFO, BFO, MCX, CDS
- sharekhan: Live prices for all segments; historical for NSE/BSE equity, NSE F&O, NSE currency, MCX commodity
- shoonya: NSE and MCX confirmed in GTT docs; equity, futures, options, commodities and demat per pricing; BFO time-series reported in community issue #203 (title only)
- stoxkart: nse, bse, nfo, mcx, nsecd (technical FAQ also lists NCEDEX commodities, omitted here)
- tradejini: Equity (NSE/BSE), F&O (NSE/BSE options and futures), currency derivatives, MCX commodities
- upstox: Not stated on the trading-api page; only feed keys (NSE_INDEX) and forum mentions of MCX found. Exchange appendix from the prior grade not in current notes.

limits.rest_rate_limits

- angel: Per second (per client code): placeOrder/modifyOrder/cancelOrder 9 combined; getLtpData 10; quote 10; getCandleData 2; getOrderBook 1; getTradeBook 1; getProfile 3; getHolding 1; generateTokens 1; loginByPassword 1. Excess returns HTTP 403

- breeze: 100 calls per minute and 5000 calls per day per user, applied across all endpoints (no per-class split)
- dhan: Order APIs 10/s, 250/min, 1000/hr; Data APIs 5/s, 100000/day; Quote APIs 1/s, unlimited per min/hr/day; Non-Trading 20/s; option chain one unique request per 3 s. Errors DH-904 (trading) and 805 (data)
- fivepaisa: Help article: 25 req/s general and 1500 orders/min; landing page claims 600 order req/min and 50 req/min other APIs (conflict unresolved)
- flattrade: Order API: 10/sec, 40/min; general API: 40/sec, 200/min
- fyers: Data APIs: Standard 5 req/s, 50 req/min, 5,000 req/day; Prime 10 req/s, 500 req/min, 5,00,000 req/day. Transaction and user-info: Standard 10 req/s, 200 req/min, 1,00,000 req/day; Prime 10 req/s, 500 req/min, 5,00,000 req/day. Exceeding per-minute limit more than 3 times/day blocks user for the day (error -429)
- groww: Per type, shared across APIs in the type: Auth 5/s 30/min; Orders 10/s 250/min; Live Data 10/s 300/min; Non Trading 20/s 500/min
- hdfcir: No numbers in any doc or staff reply; third-party 5-10 req/s is unsourced and not used
- hdfcsky: No numeric REST limits published; vendor refers developers to the portal
- kite: Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess
- kotak: Not published on official page; SDK ships opt-in rate limiter; no per-endpoint figures found
- motilal: Third-party review only: 40 transactions/s for order create/modify/cancel, 2 calls/s other REST, 1 req/s interactive calls. Review page dated 2024-05-29 and conflicts with the official 10 OPS; no official REST rate table found
- mstock: Order APIs 30/s, 250/min, 1000/hr; Data APIs 1000/min, 5000/hr; Quote and Non-Trading 'Unlimited' (table garbled; third-party says quote 20/s, data 1/s)
- nuvama: 3000 requests per 5 minutes per IP (continuous); blocked 1 minute on breach; 86400 total requests per day; no per-second or per-endpoint-class breakdown stated
- samco: Per session / per IP: placeOrder 10/200; modifyOrder 10/200; cancelOrder 10/200; orderBook 100/200; squareOff 20/200; getQuote 10/500; getLimits 2/200; marketDepth 3/20; candleData 5/20; GTT 3 per session; basket 5 per session; spanMargin 3 per session; spanCalculator 5 per session; personal index 3 per session / 20 per IP. Samco may impose further limits.
- sharekhan: 2023 SKAPI v2 PDF: quote 1/s, order placement 5/s, historical 3/s, 25 modifications per order; conflicts with landing-page 30 rps and FAQ placeholder XX; unresolved, possibly outdated
- shoonya: Order place, modify, cancel and GTT about 10 req/s burst-limited (shared); market data about 1 req/s per instrument; historical has lower burst (no number); throttled calls return Rate_Limited
- stoxkart: Per second: 10 req/s place/modify/cancel order, getLtpData, convertPosition, rule APIs; 3 req/s getCandleData; 1 req/s login, profile, order/trade book, RMS, holdings, positions. Breach returns 403 (error-codes page says 429)
- tradejini: Market and account data 100 req/s per token; API-key-only 100 req/s per key; place-order 10 req/s per token; other authenticated 10 req/s and 400 req/min; OTP 3 req/s per IP; HTTP 429 on breach
- upstox: Order place/modify/cancel/multi-order/GTT (one bucket): regular algo 10/sec, SEBI-registered algo 50/sec; both 500/min, 2000/30min. Other standard APIs (holdings, positions, funds, historical candles): 50/sec, 500/min, 2000/30min. Payout request/modify/cancel 10/min, 300/30min. Apply IPO 1/sec, 10/min, 300/30min. TOTP login 1/sec, 10/min, 60/30min. Per-API, per-user.

limits.orders_per_second

- angel: 9 OPS, cumulative across place/modify/cancel (official docs); SEBI TOPS threshold 10 OPS per exchange/segment; blog claims 20 (conflict)
- breeze: 10 OPS combined (place, cancel, modify, square-off); orders above 10 per second auto-rejected; 10 OPS or fewer needs no algo registration
- dhan: 10 OPS (cut from 25 in Mar 2026); strategies above 10 OPS need Algo Registration

- fivepaisa: 10 OPS for one non-algo app (no Algo ID); 25 OPS for algo apps with Algo ID; excess rejected with 429
- flattrade: 10 OPS for non-registered keys; separate registered key needed above 10 OPS
- fyers: 10 OPS, shared across place, modify and cancel (single order docs); SEBI TOPS 10 OPS per exchange/segment (unverified against exchange circular)
- groww: 10 per second (250 per minute) for create, modify and cancel
- hdfcir: No HDFC figure; staff/blog say 'do not engineer around order rate limits'; NSE 10 OPS retail threshold is third-party
- hdfcsky: No OPS figure published; OpenAlgo gives only generic rate-limit guidance
- kite: 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page)
- kotak: 10 orders per second (official pages); a Kotak guide snippet claims 20 (unverified conflict)
- motilal: 10 OPS per exchange/segment, enforced per UCC (client), broker may set lower; excess throttled or rejected
- mstock: 10 orders/sec on official trading page; intro rate-limit table gives 30, 1 and 20 per second with no column mapping (does not say '30 requests/sec'), conflict flagged
- nuvama: 10 orders per second
- samco: 10 req/s per session on placeOrder (docs), 200 req/s per IP. Marketing claim of up to 200 orders per second per user. Conflict between the two.
- sharekhan: Up to 30 requests per second (landing-page marketing claim, unverified); conflicts with 2023 PDF order rate of 5/s and FAQ placeholder XX
- shoonya: 10 OPS per exchange per client is the SEBI threshold; above it the strategy must be exchange-registered; higher order rate needs an approved Algo ID
- stoxkart: 10 req/s on placeOrder, modifyOrder, cancelOrder; no separate order cap
- tradejini: 10 req/s on place-order per auth token
- upstox: 10 OPS is the threshold above which SEBI algo registration is required. Registered algos get 50 requests/sec on order endpoints.

limits.daily_caps

- angel: No daily request cap stated; per-second, per-minute and per-hour limits only, calculated per client code (placeOrder 1000/hr, getCandleData 5000/hr); all users logged out daily at midnight
- breeze: 5000 calls per day per user
- dhan: 7,000 orders per day; 25 modifications per order; Data API 100000 requests per day; up to 25 consent app IDs per user per day
- fivepaisa: 10000 order placements per day (landing page)
- flattrade: None stated; docs list only per-second and per-minute limits
- fyers: Caps exist: 5,000 data requests/day (Standard); 1,00,000 transaction/user-info requests/day (Standard); Expired F&O intraday 10 requests/day (Standard); 50 orders per multi-order margin request; not 'none stated'
- groww: Token endpoint 150 requests per 24h; no daily order cap found
- hdfcir: No daily cap stated explicitly in any fetched source
- hdfcsky: No numeric daily caps published in sources checked
- kite: 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs)
- kotak: No daily order or request cap stated explicitly in any fetched source
- motilal: No daily order count stated by MO; brokers may impose their own client-level daily limits
- mstock: None stated; 'Unlimited' per day in rate-limit table and 'Unlimited GET requests & orders/day' claim
- nuvama: 2000 orders per day; 86400 total requests per day; order-to-trade ratio 49:1; app block for period set by email on breach

- samco: No daily cap stated. Only per-second session and IP limits are published (Samco may set further limits).
- sharekhan: Not found on Sharekhan API pages
- shoonya: Docs say quotas are enforced per day, but no daily count is published
- stoxkart: No daily caps stated; rate-limit page defines per-second limits only
- tradejini: No daily cap listed; API page states max order requests per day is Unlimited
- upstox: None stated explicitly: rate-limit windows are per second, per minute and per 30 minutes only. Absence on one page; verify.

dev_experience.official_sdks

- angel: Python SDK (angel-one/smartapi-python) is the only official library found; other languages not found
- breeze: Python (breeze_connect, latest listed 1.0.68, undated), Java, JavaScript (npm breezeconnect)
- dhan: Python dhanhq (PyPI; latest release v2.3.0, year not shown on page); TypeScript DhanHQ-js (26 stars, activity not verified); Java pdf-generator is not a trading SDK
- fivepaisa: Python, C#, Node.js and Java kits listed; only py5paisa (Python) recency verified
- flattrade: Python only (flattrade/pythonAPI); .NET API requested (issue 7), not offered
- fyers: Python (fyers-apiv3, v3.2.1 released 30 Oct 2026), Java (v1.1.0, MTF and GTT added), Go, C; all under FyersDev GitHub org (Java, Go, C updated 30 Oct 2026)
- groww: Python only (growwapi on PyPI: GrowwAPI, GrowwFeed); cURL docs; no other language SDK found
- hdfcir: No official HDFC SDK or repo found in repeated search; developer portal returns 403
- hdfcsky: No official SDK named; vendor says plain HTTP without a specialised SDK; GitHub search found no HDFC SKY SDK repo
- kite: Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET
- kotak: Python: kotakneoapi on PyPI, latest 3.0.13 (2026-10-28), maintained; .NET: Kotak.NeoTradeApi 0.1.0-ci1 on NuGet, provenance unclear; official GitHub SDK repo archived 2026-09-10
- motilal: Official libraries listed: C#/.NET, Python, NodeJS, Java, Postman collection; only Python repo verified as maintained (Python 5.0 SDK, Sep 2026); others unverified
- mstock: Python (pytradingapi-typeA, -typeB) and Node.js (nodetradingapi-typeA, -typeB); each repo has a single 'Initial commit' dated 2026-03-02
- nuvama: 4 languages documented: Python (APIConnect 2.0.11), Node.js (api_connect_nodejs 2.0.15), Java (2.0.10), C# (.NET 4.0+); all SDK changelog versions dated 2026-03-30, so stale by the 6-month test
- samco: Python, Node.js and Java SDKs. Python-SDK 56 commits and 16 stars; Java-SDK and NodeJS-SDK 2 stars each. Last-commit dates not retrieved, so maintenance is unverified.
- sharekhan: Six SDK repos on GitHub (Python, Node.js, R, PHP, Java, C#); FAQ also lists Go and .NET. Python PyPI last release Jun 2023; commit dates not recorded, so maintenance unverified
- shoonya: Python (NorenRestApiOAuth, last push 2026-08-19) and .NET (ShoonyaApidotNet, .NET Standard 2.0, no NuGet package); .NET maintenance not verified
- stoxkart: Python, Node.js, C# on GitHub (Developers-Portal org, v1.0); Java and Go listed without repo links; StoxKart-Tech Python repo last pushed 2023-04-17 with no license; maintenance dates unverified
- tradejini: WebSocket SDKs only: Java 11+, TypeScript (Node >14), Python 3, C# (.NET 4.6.2), C# .NET 6; no REST SDK; maintenance not verified
- upstox: Python confirmed (upstox-python-sdk, latest indexed 2.21.0; Agent Skills built on it). Other official language SDKs not confirmed in current notes, so only one verified language.

dev_experience.doc_quality

- angel: Structured docs: endpoint, parameter and response tables, samples in Python, Node.js, Java, R, error codes page; minor JSON typos in samples; forum complaints about unannounced token removals
- breeze: Per-endpoint sample JSON and Learning Hub exist; depth levels, Greeks, websocket limits, session expiry and basket/multi-leg absent from docs
- dhan: Endpoint docs current to API v2.5 (Feb 2026) with annexure and examples. Gaps: postback retry not documented; no futures chain, position conversion or charges endpoint found; Trade Terminal feature gap raised (GitHub issue #155)
- fivepaisa: Several sub-pages load as titles only or are blocked (Akamai); order, margin, GTT and postback gaps
- flattrade: Endpoint list, samples, error shapes, changelog and Postman present; gaps: no rate limits or WS limits in SDK README, no historical retention, TOTP and sandbox undocumented; docs body JS-rendered
- fyers: Sectioned API reference with per-endpoint parameters, code samples, Postman collection, sample code repo and changelog; some pages (webhook response, Data Socket sub-pages) only partially reviewed
- groww: Per-endpoint docs with samples, but inconsistencies (order list page_size 100 vs 25 on one page); python-sdk/authentication page 404; legacy historical endpoint deprecated
- hdfcir: Developer portal JS-rendered and largely blocked (403); community mirror lists bracket/cover/GTT/basket, brokerage/margin and sandbox as not documented
- hdfcsky: Docs sitemap covers many endpoints (basket, GTT, margin, WebSocket, rejection codes), but portal body unreadable and several features are Coming Soon in the blog; currency not verified
- kite: Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks
- kotak: Developer portal, sample code and SDK docs exist; many FAQ answers are unavailable or conflicting (order rate, market orders, support numbers, 15 vs 15-20 min onboarding)
- motilal: Endpoints, fields and samples documented, but gaps: TOTP secret page not a standalone URL, TradeUnsubscribe sample sends TradeSubscribe, live trade WebSocket marked WIP, footer shows only 2022
- mstock: Sections and JSON examples present; gaps: rate-limit table garbled, option chain coming soon, conflicting order-rate and brokerage figures, Type B pages partly unreadable
- nuvama: Endpoint reference and SDK samples present; sample endpoints point to UAT host; gaps on rate-limit per second, GTT, historical lookback, expired F&O, option/futures chain
- samco: Side-by-side cURL, Node.js, Java and Python examples for every v3.2 endpoint. Gaps: candle intervals, order types, depth levels and WebSocket limits not stated on fetched pages.
- sharekhan: Docs index lists sections (login, orders, holdings, funds, historical, websocket, scripmaster, error codes) with no endpoint, auth or limit detail in the captured index; section bodies not captured
- shoonya: Broad coverage with examples, but gaps: Option Greeks page 404, Algo ID field name still being finalized, no docs for basket, expired F&O or sandbox
- stoxkart: Covers login, orders, quotes, WebSocket, errors, but has internal inconsistencies, a 404 historical page and key pages dated 2023
- tradejini: Endpoint pages with examples across auth, orders, GTT, charts, funds, symbols and market hours; gaps: no quotes, no changelog; FAQ thin
- upstox: Broad, example-rich docs with gaps: historical lookback contradicts itself, historical endpoint marked deprecated, static-ip and terms-of-use URLs returned 404, rate-limit URL 404 in one fetch. No formal quality verdict sourced.

dev_experience.sandbox_paper

- angel: Not found in SDK README or docs

- breeze: No sandbox or paper trading in official docs; a third-party paper engine built on Breeze history exists (not an ICICI feature)
- dhan: Developer Kit sandbox exists but is explicitly not a paper-trading environment and cannot make external requests
- fivepaisa: No sandbox page retrieved: the cited URL returned HTTP 404 on 2026-11-05 and no official sandbox page was found.
- flattrade: Docs mention a separate TESTING key when redirect URLs differ; no sandbox or paper-trading endpoint documented
- fyers: No sandbox or paper-trading section in the API docs index, but absence from an index is not an explicit statement, so unknown. FYERS API terms separately bar using exchange data for paper trading.
- groww: No sandbox or paper trading found on official pages
- hdfcir: No sandbox or UAT host documented. The cited docs mirror never mentions a sandbox; the 'sandbox environment' marketing line belongs to HDFC Sky, not InvestRight.
- hdfcsky: Sandbox mentioned on vendor algo page for testing integrations; no sandbox documentation found
- kite: Unresolved conflict: Kite's agent-setup file describes sandbox.kite.trade (shared demo credentials, LIMIT-only orders, credentials provided by session organisers), but Zerodha's Kite Connect FAQ says it does not offer a sandbox environment for Kite Connect. No paper-trading product for ordinary account holders is documented either way.
- kotak: Not in official docs; one third-party review claims a sandbox for back-testing
- motilal: UAT environment exists (openapi.motilaloswaluat.com, UAT WebSocket); UAT margin assignment must be requested and UAT order logs are mandatory for vendor activation; no paper-trading product
- mstock: NOT FOUND on official pages
- nuvama: UAT environment for integration testing (emtuat.edelweiss.in), then switch to production; no paper trading found
- samco: Not found on docs or help articles.
- sharekhan: Not found on Sharekhan API pages or GitHub org
- shoonya: No sandbox or paper environment described; quick start only says to confirm a paper/test account before running the live order example
- stoxkart: No sandbox or paper-trading mention on API index, general FAQ, technical FAQ or terms
- tradejini: No demo account for API paper trading per support; separate Demo Platform exists; no API sandbox documented
- upstox: Free sandbox, no time limit, separate sandbox app with 30-day token. Supports place, modify and cancel order APIs (V1 and V3) and multi-order only; not usable for live.

dev_experience.changelog_freshness

- angel: Last known update: exchange-regulation changes 1 Apr 2026; GitHub issues active Jun to Sep 2026
- breeze: No CHANGELOG file; README version history has entries but no dates (latest 1.0.68)
- dhan: Last API release note: v2.5, 09 Feb 2026 (more than 6 months before 3 Nov 2026). Dhan staff said all API changes went live 1 Apr 2026 in a forum post
- fivepaisa: Changelog page exists; no dated entries retrieved
- flattrade: Docs last updated 31 Mar 2026; changelog exists; about 7 months before 3 Nov 2026
- fyers: Last API update 30 Oct 2026 (Screeners APIs under /api/v3/screeners; fyers-apiv3 v3.2.1). Prior entries 16 Oct, 13 Aug, 6 Sep 2026
- groww: Last dated changelog entry 2 Dec 2025 (User Profile API), over 6 months before 2026-11-03; 6-month deprecation notice policy
- hdfcir: No changelog found; activity only in forum (latest staff reply 14 Oct 2026)
- hdfcsky: No public changelog or release history in vendor docs sitemap

- kite: Last changelog entry 2025-06-12 (Alerts API); older than 6 months as of 2026-11-03
- kotak: No formal changelog (GitHub Releases empty); last SDK release on PyPI 2026-10-28; GitHub repo archived 2026-09-10
- motilal: No public changelog or release notes; docs footer shows 2022; GitHub SDK has no releases (last SDK commit 2026-09-04)
- mstock: No changelog published; placeholder section only
- nuvama: Last SDK changelog entry dated 2026-03-30, about 7 months before 2026-11-03 (older than 6 months); no later release is in the raw notes
- samco: Last update: v3.2.0 released 08 June 2026 (within 6 months of 2026-11-03).
- sharekhan: No changelog found; last PyPI release shareconnect 1.0.0.11 on Jun 14, 2023
- shoonya: Changelog exists; last dated entry 1 Apr 2026 (profile notes March 2026), more than 6 months before 2026-11-03
- stoxkart: No changelog or release-notes route; docs pages last updated July 2023 (publisher-js April 2024)
- tradejini: No changelog or release notes found; docs footer shows app version 0.0.26 with no date
- upstox: Active announcements log: latest dated entries Aug 1 2026 (CAS support), Jun 6 2026 (Agent Skills, analytics token change). Within 6 months.

dev_experience.github_activity

- angel: Stars and last-commit date not retrieved; issues active Jun to Sep 2026
- breeze: 89 stars, 176 commits; latest commit date not visible; issues active through 2026-10-25 (issue 246)
- dhan: DhanHQ-py: 214 stars and 21 open issues at fetch time; v2.3.0 release dated 08 Oct (year not shown); last commit date not shown. Issues dated through Oct 2026 suggest the repo is active
- fivepaisa: py5paisa: 108 stars; last push 2026-10-12; latest release v0.7.21.5-pre-alpha; open issues 135 per issues page (corrected from 147); no license tag
- flattrade: pythonAPI: 47 stars, 34 commits, no releases; last commit date not shown on page; issues active to 4 Jul 2026
- fyers: FyersDev org: fyers-java-sdk, fyers-go-sdk, fyers-c-sdk last updated 30 Oct 2026; fyers-skills (Python) last updated 11 Jul 2026, 34 stars; fyers-api-sample-code 106 stars
- groww: No official GitHub repo found; PyPI releases 0.0.4 (Apr 2025) to 0.0.7 (May 2025); later Dec 2025 release from a search snippet only
- hdfcir: No official HDFC repo; third-party only: OpenAlgo added InvestRight in release 2.0.2.0 (14 Aug 2026); community docs mirror PR #2 is closed
- hdfcsky: No official HDFC SKY GitHub repo found; only OpenAlgo broker integration discussion
- kite: zerodha/pykiteconnect about 1.3k stars, 594 commits; last commit date not retrieved
- kotak: Official repo Kotak-Neo/Kotak-neo-api-v2 archived and read-only since 2026-09-10; zero open issues; star count and last commit date not captured
- motilal: motradingapi/PythonSDK: 6 stars, 10 forks, last commit 'Major Updates 04092026' (2026-09-04), updated 2026-10-14
- mstock: Stars: typeA 11, typeB 3, nodetradingapi-typeA 5; last commit 2026-03-02 (initial commit only), over 6 months old
- nuvama: No source repository linked from PyPI page; GitHub stars and commits not found
- samco: samco-sdk: Python-SDK 16 stars, 56 commits; Java-SDK and NodeJS-SDK 2 stars each. Last-commit date not visible on the fetched page.
- sharekhan: Python SDK repo 14 stars / 11 forks; last commit date not recorded
- shoonya: Official OAuth SDK repo: 4 stars, last push 2026-08-19, no published release
- stoxkart: SuperrApi-Python: 7 commits, 3 open issues, no releases; last commit date not seen; StoxKart-Tech superrapi-python last pushed 2023-04-17
- tradejini: No official GitHub SDK repo found; PyPI tradejini-api v1.0.0 is third-party and unverified
- upstox: Only release tags seen (upstox-python v2.16.0; PyPI 2.21.0). Commit and issue activity not measured.

compliance.sebi_algo_fit

- angel: Static IP, TOPS 10 OPS and exchange algo-ID framework documented; open question on client-hosted black-box algo needing empanelment unanswered (TradingQnA, 14 Sep 2026)
- breeze: Static IP mandatory from 1 Apr 2026; 10 OPS or fewer needs no algo registration; one active key per static IP; flow documented
- dhan: Algo Registration required only above 10 OPS; Algo ID obtained by emailing apihelp@dhan.co; static IP managed via Modify IP API
- fivepaisa: Algo ID required above 10 OPS (exchange-specific, via support team; process not yet published); static IP per key; only selected algo providers empanelled; limit orders only (staff post)
- flattrade: Registered-algo flow documented: strategy and segment upload for over 10 OPS, Algo Id in order updates, primary static IP
- fyers: Static IP whitelisting per app documented; SEBI algo ID and OPS threshold rules described only in FYERS community post (10 OPS threshold, unverified); effective date reported inconsistently (1 Apr vs 1 Aug 2025)
- groww: Static IP whitelisting (primary + secondary) per SEBI retail algo circular of 4 Feb 2025; 10 OPS matches retail threshold; Algo ID and registration per secondary sources only
- hdfcir: Static IP mandatory; broker API algos must be registered and tagged (blog); NFO algo orders rejected 'algo order disabled for this exchange' (staff workaround, 1 Oct 2026); no registration flow documented
- hdfcsky: Static IP required per OpenAlgo (SEBI circular); broker-level SEBI registration only; no algo ID or empanelment flow documented
- kite: Client algos within 10 OPS need no exchange registration; above that an exchange Algo ID and strategy write-up are required; Zerodha does not submit empanelment for third-party algo providers; static IP mandatory
- kotak: Static IP whitelisting from 1 Apr 2026 documented with self-registration; Algo ID appended automatically by Kotak; fintech empanelment path documented
- motilal: Algo ID field (algoid) for algo orders, static IP enforcement, SEBI circular SEBI/HO/MIRSD/MIRSD-PoD/P/2025/0000013 cited, exchange-issued Algo ID for strategies above the OPS threshold; rules effective 1 Apr 2026
- mstock: mstock-specific SEBI algo registration flow NOT FOUND; only general rules (Algo ID required, >10 OPS full registration)
- nuvama: Algo identifiers present (client-level algo flag; order-details algoId and algoCategory); static IP mandatory; registration or compliance process not sourced
- samco: Static IP and SEBI A.6 change-limit flow documented, citing SEBI circular SEBI/HO/MIRSD/MIRSD-PoD/P/CIR/2025/0000013. Algo-ID registration and empanelment not found.
- sharekhan: No Sharekhan SEBI or exchange algo-compliance statement found
- shoonya: Algo ID and empanelment flow documented, but Algo ID field name still being finalized; terms say APIs not meant for fully automated trades (conflict unresolved; confirm with onboarding contact)
- stoxkart: API keys usable with third-party low-code/no-code algo platforms; no SEBI algo ID or registration statement; terms say APIs are not meant for fully automated trades without manual intervention
- tradejini: Static IP registration enforced for order requests from 1 Apr 2026; no further algo-registration terms found
- upstox: Registration flow documented: algos above 10 orders/sec need SEBI/exchange registration and an Algo ID entered in Algo Apps settings; re-registration on logic change; X-Algo-Name header; registered static IP. Framework effective 1 Apr 2026. Retail app-creation pause is unconfirmed.

compliance.redistribution_commercial_terms

- angel: Personal, internal and non-commercial use only; copying, selling, redistributing or databasing platform content prohibited; scraping AI outputs to build competing tools prohibited (general website T&C; separate SmartAPI T&C not retrieved)
- breeze: Not stated; only the no-fee statement found
- dhan: No redistribution or commercial-use terms found. Docs say Data API has additional charges; partner program applied via form
- fivepaisa: Website terms prohibit commercial use, copying, mirroring and scraping; no API-specific redistribution terms found
- flattrade: Terms section 10 (Redistribution of Data) bars copying, distributing, selling, reselling, sublicensing, publishing and displaying the data.
- fyers: Redistribution of API content requires written approval from FYERS; distributing, displaying or sub-licensing to third parties prohibited; exchange data cannot be used to build charting tools; commercial platform offering needs exchange and statutory approvals; 7 days written notice to terminate
- groww: Terms not found in fetched pages
- hdfcir: Not stated; only 'API features, availability, and charges may change'
- hdfcsky: Redistribution or commercial terms not found in sources checked
- kite: No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India
- kotak: Trade API credentials for client's own use only; commercial or multi-user use requires fintech empanelment; no redistribution terms for market data found
- motilal: Market data should not be redistributed; use only for the registered client or vendors
- mstock: NOT FOUND in fetched official pages
- nuvama: Not found in library or partner docs
- samco: No terms found. Footer shows All Rights Reserved. Policies page not captured.
- sharekhan: Only a free-access statement found; no redistribution or commercial-use terms
- shoonya: Limited licence for use within India; no public display, redistribution, caching for redistribution or sublicensing; no virtual/mock trading apps; platforms for other clients need exchange approval
- stoxkart: Live market data may not be displayed to the public; no scraping, databases or cached copies for redistribution; redistribution may end access
- tradejini: Historical and live data usable only with CubePlus, not on other platforms; no right granted to use Tradejini name, trademark or logo
- upstox: No official terms found (terms URL 404). Business integration by email to api@upstox.com. Unverified forum reply says derived signals to Upstox users need no extra approval.

reliability_support.outages

- angel: Repeated incidents: SmartAPI internal server error outage (date not shown, sessions invalidated); Cloudflare outage 5 Dec 2025 hit trading platforms; master contracts endpoint failure; no status page found
- breeze: No status page found; repeated user reports of historical and customer-details errors (issues 229, 243, 245) from Dec 2025 to Aug 2026
- dhan: Repeated incidents: Jul 2023 multi-day downtime reports; Sep 2025 HTTP 500 on charts endpoints; DH-905 on chart endpoints Jun-Aug 2026 unresolved; open GitHub issues Oct 2026. Third-party tracker (not Dhan) shows normal status on 3 Nov 2026; no official status page found
- fivepaisa: Staff claim ~99.9% uptime (2025-07, unverified); no incident report found; no status page found
- flattrade: No status page found; TPSeries broke 22 Jun 2026 (working 23 Jun); websocket 502 on 3 Sep 2025 (not occurring by 14 Jan 2026); earlier price-series and websocket reports 2023-2024
- fyers: Third-party tracker (Pingoru, snippet only): 9 outages since 21 Jul 2025 totalling 16h 1m; MCX order-placement disruption 4h 16m on 9 Mar 2026; FYERS status page not checked

- groww: No API outage reports or status page found; consumer app outage 23 Jan 2024 (resolved) and SEBI settlement over Jan 2024 glitch
- hdfcir: No status page or outage notice found
- hdfcsky: No status page or outage history found; OpenAlgo docs list no known issues (not user data)
- kite: Repeated incidents: 3 Sep 2025 delays, 6 Oct 2025 outage, 5 Dec 2025 Cloudflare outage, 3 Feb 2026 forced logouts and failed logins; status page not verified
- kotak: No status page found; one user report of a stuck order during a cross-broker outage (Oct 2025); aggregator reports no user-listed stability issues; exchange complaint counts are broker-wide, not API-specific
- motilal: No status page or uptime figures documented; only connectivity error MO5000 Server Connectivity Failed
- mstock: No status page found; user reports of repeated outages (2022 full-day outage, 2024 order/exit failures, 2025 not-connected errors)
- nuvama: No Nuvama API outage history found in searches; no status page found
- samco: Forum report of HTTP 502 on the token endpoint on 2026-07-20, with a reply saying login APIs had been failing since the previous Saturday. Search snippets report glitch days and slow execution. No status page found in notes.
- sharekhan: No status page or outage history found
- shoonya: No status page or uptime guarantee (terms disclaim uptime); community issue titles report recurring 502 and WebSocket failures in 2025-2026
- stoxkart: No status page found; terms make no uptime commitment; only HTTP 502/503/504 meanings documented
- tradejini: No status page, outage history or maintenance notices found; vendor latency claim under 20 ms only
- upstox: No status page found. One user-reported API outage (Jun 2025, no staff reply) plus unanswered execution complaints (Feb 2026). Not enough to grade as repeated incidents or as a clean record.

reliability_support.support_channels

- angel: SmartAPI forum; email to SmartAPI or partner addresses referenced by users; ticket or chat not confirmed
- breeze: Email breezeapi@icicisecurities.com; no phone or helpline on API page; SDK bugs via GitHub issues
- dhan: Email apihelp@dhan.co (algo and API help); help email referenced in forum posts; chat support (one user called it bot-like); community forum (madefortrade); GitHub issues on DhanHQ-py
- fivepaisa: Email support (cs@iifl.com per docs); developer community forum; GitHub issues on py5paisa; support team for Algo ID
- flattrade: 24/7 technical support; phone listed; Telegram channel for community
- fyers: API support portal (support.fyers.in knowledge base), FYERS community forum (fyers.in/community), GitHub issues on FyersDev repos, FYERS Product Manager replies in forum
- groww: No documented API support channel found
- hdfcir: Forum staff replies; static-IP fixes by email (smg_investright_support@hdfcsec.com); customer care 022-6246 5555 (blog footer, dated 2024)
- hdfcsky: skysupport@hdfcsky.com; 1800 121 2109 (trading queries; ticket number issued immediately); no API-specific channel found
- kite: No phone or ticket support for Kite Connect API; technical questions go to the community forum
- kotak: Email neo.api@kotak.com with client code for API issues; helpline 1800-209-9191 on FAQ vs 18002099393 on support page (conflict); Ks.apihelp@kotak.com listed by a third party
- motilal: Email tradingapi@motilaloswal.com (API questions, vendor activation); developer portal
- mstock: Partner Integration team at tradingapi@mstock.com; users report customer phone line unreachable
- nuvama: Not found in library docs or partner docs

- samco: Help-support articles (samco.in/help-support), developer forum (forum.samco.in) and TradingQnA community threads. Phone, email and ticket channels not captured.
- sharekhan: API support email skapi@sharekhan.com (landing page); general contact myaccount@sharekhan.com (FAQ); no phone or chat stated for API
- shoonya: 24/7 customer support (third-party review); no local branches; API support by contacting the support team
- stoxkart: Phone 1800113331 / 011-40820400; stoxkart@stoxkart.com; igc@stoxkart.com for grievances
- tradejini: FAQ and knowledge base, chat, phone, email; WhatsApp community; supports API bugs, not strategy coding
- upstox: Developer community forum (community.upstox.com, staff replies); business email api@upstox.com.

community.praise

- angel: Free API cost, 10 OPS and reliable WebSocket for multi-strategy use (secondhand, Multibagg article)
- breeze: Reliable, bank-integrated feel and brand trust (Multibagg 2026, secondary); one user says 2025 backtest matched live trading (mixed)
- dhan: Few direct user praises in collected notes. Themes: free trading API access; liberal rate limits (AlgoMatrix blog); low-latency claims from Dhan and a vendor blog (unverified)
- fivepaisa: Thin evidence: Python SDK described as most used; one user says they trust 5paisa and will migrate slowly
- flattrade: No recurring user praise in fetched sources; one admin post says support is responsive on portal (not a user report)
- fyers: Themes: API is free; docs described as decent; sample code and SDKs; execution latency reported 30-35 ms, somewhat better than prior broker (single Reddit user, approx. Aug 2025)
- groww: Simple, developer-friendly integration (2023 review, pre-API); speed, reliability and simplicity (2025 promotional blog); faster than Dhan (second-hand, unmeasured)
- hdfcir: No developer praise themes found in any source
- hdfcsky: No recurring positive developer sentiment found; OpenAlgo discussion has 0 replies
- kite: Thin evidence: usable for learning and building (one Reddit user, about 2 years); docs described as decent
- kotak: Free API and zero brokerage praised; fast pledged-margin; strategy bot called strong; virtual trade basket and delta alerts valued; secondhand reports of predictable API behavior
- motilal: Thin evidence: one third-party review praises free access and reasonable rate limits; OpenAlgo integration listed
- mstock: Zero or low brokerage; a few reviewers report no significant issues
- nuvama: Reviewer claims only (Chittorgarh, 2024-11-27): 'powerful and flexible', 'fast, reliable, and scalable', 'attractive for algorithmic traders'; one LinkedIn user says APIs are free; unverified
- samco: No recurring positive developer sentiment in notes. Only vendor claims found.
- sharekhan: No community sentiment found; only vendor marketing claims (free API, up to 25 ms)
- shoonya: No positive developer sentiment within the 18-month window; praise found is 2022 forum posts (outside window) plus a general 24/7 support mention in a review
- stoxkart: InvestorGain 4/5 from 20 users (no written reviews); AlgoTest integrates Stoxkart APIs for live trading (equity and F&O)
- tradejini: Little third-party praise; OpenAlgo integration closed as done 2025-06-23; vendor claims free and fast
- upstox: Few sources. Secondary article (Multibagg, paraphrase) describes a detailed developer API with real-time execution and streaming, and longer-lived tokens than daily-expiry brokers.

community.complaints

- angel: Order errors after IP whitelisting; family static-IP limits; symbol tokens removed without notice; master contracts failures; WebSocket missing ticks at large token counts; IPv6 gap; MTF holdings hard to identify; best_5 fields swapped in SNAP_QUOTE
- breeze: Historical data errors and missing data; customer-details outage errors; order cancel/modify not applied (issue 238); websocket errors; symbol mismatches; slow or no support replies
- dhan: Recurring themes: login and TOTP failures after token and static IP changes (Oct 2025); DH-905 and HTTP 500 on historical endpoints; data latency and price mismatch (Dec 2025-Feb 2026, one user stopped using); margin update delay (2025); slow or unanswered support email; API market orders not converted to MPP limits (Mar 2026); get_order_by_id price mismatch; SDK bugs in GitHub issues
- fivepaisa: Open GitHub issues: invalid response token (#311), pyjwt conflict (#319), query_scrips NameError (#320), expired-futures data empty (#321), MultiOrderMargin failing (#324), Python integration difficult (#325)
- flattrade: Recurring: price-series methods not working (issues 3, 5, 9, 20); websocket errors (4, 17); session expiry (18); BFO options missing (19); place_basket drops results (21)
- fyers: Themes: WebSocket drops and data issues (May 2025; Reddit 'drops connection more often'); fyers.history() hangs without timeout (Aug 2025); FYERS Automate placed unprompted orders and target/SL not applied (Aug-Sep 2026, staff say resolved); API Bridge breakage Apr 2026; revised Standard limits cut to 5 req/s, 50 req/min, 5,000/day and 100-symbol WS cap seen as too strict; SDK bugs (TBT num field, socket destroy, OAuth -441)
- groww: Needs coding and auth setup (no-code vendor claim); daily token expiry and pyotp setup; 401 on token expiry (community wiki); MCP holdings fetch failure for one user; interface called immature by one user
- hdfcir: No candle API / historical data missing for backtesting; market data WebSocket 'will be released soon' (9 Jun 2026); TOTP not supported; static IP wrong-IP fix takes 7 days
- hdfcsky: No recurring developer complaints found; OpenAlgo discussion has 0 replies
- kite: Order throttling during position adjustments; latency spikes in volatile periods; outages; slow support follow-up; static IP friction; reported Invalid api_key after a renewal payment (single forum thread)
- kotak: Activation error 'not authorised, re-login'; API access lost after deleting DefaultApplication; pip install failures; spam calls after account opening; direct MF lumpsum or SIP not allowed; order stuck in outage; NSE F&O client not authorised error
- motilal: Thin evidence: third-party guides describe daily manual token regeneration and 30s TOTP entry as friction; no forum data found
- mstock: App crashes and hangs; 'not connected to server' on good internet; slow or failed order placement and exits; charts and prices wrong; support unreachable; fund balance delayed
- nuvama: No API-specific complaints found; consumer app reviews mention lag and crashes in trading hours (app, not API); BSE complaints page is general brokerage
- samco: Login/token 502 outage (Jul 2026). Requests for better comms and updates. Reports of slow website and execution and desktop login failure. 49 NSE complaints in FY2025-26. Customer service 3.2/5 from 26 votes. No branch support.
- sharekhan: No community complaints found; FAQ placeholder XX orders per second is a vendor-page defect, not a user complaint
- shoonya: Login failures, WebSocket silent drops beyond about 100 tokens (issue #217, no maintainer reply), intermittent 502s, time-series data gaps, searchscrip broken, slow platform updates (review)
- stoxkart: Python SDK issues: #4 (2024-11-07, open) undefined validatedtoken and broken login helpers; #5 (2025-06-06, open) reports many bugs
- tradejini: Repeated OpenAlgo adapter issues: no client keepalive (issue 1101), FD leaks fixed 2026-04 (1226), lock held during subscribe (1350), zero-price bars (PR 2359 open)
- upstox: Algo brokerage mismatch (Rs 20 charged via Tradetron vs Rs 10 expected; ticket unresolved as of 2026-02-10). Feb 2026 execution-above-margin report, no staff reply. Occasional lag (secondary article). App-creation pause reported Jan 2026 is unconfirmed.

community.comparison_claims

- angel: Multibagg: SmartAPI 'often presented as the strongest free API option' (secondhand, unsourced, explicitly not a benchmark)
- breeze: Multibagg 2026 (secondary, unnamed Reddit source): slightly dated and slower than discount brokers; TradingQnA 2024 user rejected Kite Connect on cost only
- dhan: AlgoMatrix blog (Oct 2025): Dhan executes 98% of orders under 20 ms (Mar 2025 data), Dhan rate limits most liberal in industry, Kite docs most comprehensive (Kite-favourable). Forum user (Jun 2025): Kite not suited to latency-critical or HFT strategies (Dhan-favourable). Secondhand Reddit quote on Kite rate-limit hits during volatility
- fivepaisa: 5paisa blog claims its app stayed up in the Cloudflare outage because it uses Akamai (company claim, unverified)
- flattrade: none found in fetched sources
- fyers: Reddit user (approx. Aug 2025): FYERS websocket less stable than Zerodha Kite ('drops connection more often'); FYERS only a modest step up from Kite ('not a quantum leap from kite'); latency better than prior broker; API free and docs decent
- groww: Groww live data included vs Zerodha Rs 500/month (Algotest, whose summary contradicts itself); Groww faster than Dhan (second-hand); Rs 499 vs Rs 2000 (2025, outdated)
- hdfcir: OpenAlgo treats InvestRight plugin as independent of HDFC Sky plugin (targets developer.hdfcsec.com)
- hdfcsky: No independent HDFC SKY API claims found; InvestorGain comparison leaves HDFC SKY API fields blank
- kite: Self-reported: a Reddit user says they moved Kite Connect to Nubra for flatter latency (single-digit ms, unverified); another moved Zerodha to Fyers for modest gains (30-35 ms); a blog quotes a user moving Zerodha to DhanHQ and hitting rate limits (secondhand)
- kotak: Aggregator (secondhand): Kotak API free while Zerodha Kite Connect is quoted at Rs 2,000/month; Kotak is cheaper with less community evidence; user (May 2025): Rs 10 per order vs Zerodha Rs 20
- motilal: No comparison claims found
- mstock: Techjockey reviewer rates trading experience below Zerodha, Fyers, Angel One, Ventura; tradingqna user says Zerodha 'way better'; Chittorgarh review claims high rate limits
- nuvama: Chittorgarh Dhan vs Nuvama: both marked Automated Trading: Yes; no API fee or quality comparison stated
- samco: QuantConnect doc: orders may slip in live trading though not in backtests. 2023 Chittorgarh review contradicts itself on API fees.
- sharekhan: No third-party comparison found
- shoonya: Only 2022 claims (outside window): login is one request unlike Zerodha; 0.30% per order is high for small-capital strategies
- stoxkart: AlgoTest says API access is usually free, confirm with relationship manager; docs call WebSocket the best option for speed (vendor claim)
- tradejini: No third-party comparison claims found; comparison list empty
- upstox: Third-party claims (unverified): Upstox free API vs older guides quoting Rs 1,000-2,000/month; Plus gates expired-instrument history; Rs 10 promo to 30 Sep 2026 (conflicts with official 31 Dec 2026).

other.option_chain_api

- angel: No option chain endpoint found; changelog 1.4.8 lists Greeks, put-call ratio and top gainers/losers APIs but no option chain; not announced
- breeze: GetOptionChain for one expiry with strikes, open_interest and chnge_oi; Greeks and IV not stated; IV/IVP reported missing (issue 226)
- dhan: POST /optionchain returns strikes with OI, previous OI, greeks, IV, volume and bid/ask; POST /optionchain/expirylist lists active expiries; one unique request per 3 s
- fivepaisa: No option chain endpoint found in notes
- flattrade: get_option_chain (strprc, count) documented; response has no oi or Greeks fields; OI only via touchline feed

- fyers: Option chain endpoint: Call and Put strikes, OI, Greeks and IV (greeks=1), India VIX, available expiries; strikecount max 50 per side of ATM
- groww: get_option_chain by exchange, underlying, expiry with Greeks, LTP, OI, volume per strike (added 24 Nov 2025)
- hdfcir: No option chain endpoint found; OpenAlgo plugin lists 'option tools' only (third-party)
- hdfcsky: No option chain API found; 'Option Chain' appears only as a website menu item
- kite: No option chain endpoint; instruments CSV (strike, CE/PE) plus /quote lets you build one yourself (inference); changelog has no option chain entry
- kotak: Option Chain API stated as unavailable at the moment; not allowed for this platform; no announced date
- motilal: No evidence found; option contracts only in scrip master
- mstock: Announced only: option chain master and data endpoints marked 'Coming Soon'
- nuvama: Not found in library docs
- samco: Option Chain endpoint /option/optionChain exists (1 req/s session, 20 req/s IP). Earlier 'not documented' note superseded.
- sharekhan: No evidence found; option chain not in docs index
- shoonya: Option chain endpoint returns calls and puts across a strike range for one underlying and expiry in one call; LTP and OI per strike; cnt defaults to 10
- stoxkart: No option chain endpoint found
- tradejini: No option chain endpoint in docs index
- upstox: Put/Call Option Chain endpoint exists (listed in docs index) and returns strike-wise greeks and premium. OI and IV are separate endpoints, so not in one call. Title-level evidence only this run.

other.futures_chain_api

- angel: Not found
- breeze: No futures chain endpoint found; option chain takes one expiry_date
- dhan: No futures chain endpoint found; option chain and expiry list cover options underlyings only
- fivepaisa: No expiry-list endpoint found; GetScripInfoForFuture returns OI per instrument only
- flattrade: not found (closest is searchscrip)
- fyers: Futures chain endpoint returning currently available futures contracts for an underlying
- groww: No futures-chain endpoint; Get Expiries and Get Contracts list FNO contracts (incl. FUT symbols) from 2020
- hdfcir: No evidence found
- hdfcsky: No futures chain API found in sources checked
- kite: No futures chain endpoint found; expiries derivable from instrument dump
- kotak: Expiries and Search Scrip (with expiry, option type, strike) documented; no dedicated futures chain endpoint documented
- motilal: No evidence found; scrip master has expirydate field but no expiry-list endpoint
- mstock: Option chain master lists FUTIDX/OPTIDX/OFSTK groups and expiry map (dctExp), but endpoint is 'Coming Soon'
- nuvama: Not found in library docs
- samco: Future Chain endpoint listed in the docs index. Endpoint detail not fetched.
- sharekhan: No evidence found; not in docs index
- shoonya: No futures chain endpoint in API navigation
- stoxkart: No futures chain endpoint found

- tradejini: No futures chain endpoint in docs index
- upstox: Get Expiries endpoint lists expiry dates for an underlying. No single futures-chain endpoint returning contracts across expiries found in the docs index.

other.alerts_api

- angel: Not found
- breeze: No price alerts endpoint found in docs
- dhan: Conditional trigger orders via POST /alerts/orders: indicators (e.g. SMA_5), timeframes DATE to DAY, operators such as CROSSING_UP; one or more orders per trigger; postback on trigger. Scope limited to equities and indices
- fivepaisa: No evidence found
- flattrade: Alerts section documents set, cancel, modify, pending and enabled alert types; alert-triggered orders not verified
- fyers: Price Alerts section exists (create, read, change, delete, enable/disable); alert-triggered orders not documented
- groww: No alerts API found
- hdfcir: No evidence found
- hdfcsky: No price alerts API found in sources checked
- kite: Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user
- kotak: Not in API docs; delta alerts and predefined-condition features reported only in the mobile app
- motilal: No evidence found
- mstock: NOT FOUND
- nuvama: Not found in library docs
- samco: No evidence found.
- sharekhan: No evidence found; not in docs index
- shoonya: set-alert, cancel-alert and modify-alert endpoints; GTT described as a superset of Set Alert
- stoxkart: No alerts API documented; rule endpoints exist in the rate-limit table but their purpose is undocumented (may be GTT-like)
- tradejini: No alerts API in docs index
- upstox: No price alerts API in the docs index (no explicit statement either way).

other.bracket_cover_super_orders

- angel: Not found; only variety NORMAL shown in SDK example, STOPLOSS absent
- breeze: No dedicated bracket or super order endpoint; GTT cover_oco three-leg order type; cover_order fields in margin calculator
- dhan: Super orders (entry, target and stop-loss legs in one request, optional trailing SL); BO and CO product types also available
- fivepaisa: Bracket orders (place, modify, delete) and cover orders supported in py5paisa; trailing SL not stated
- flattrade: Conflicting: docs list CO (H) and BO (B) product codes and exit_order for cover and bracket orders; v2 announcement says cover and bracket orders are not allowed; no trailing SL found
- fyers: CO and BO explicitly deprecated (2 Aug 2026); SL and TP now managed on open positions via Manage Positions (PATCH, null cancels); smart orders exist in order placement but type not verified

- groww: Bracket orders only via GTT child legs (target/stop-loss); no cover or super orders found
- hdfcir: Not documented: community mirror has no bracket or cover order pages; OpenAlgo exposes regular orders only
- hdfcsky: Vendor docs have Bracket Order and Cover Order endpoint pages (URL evidence only; blog says absent); super orders not found; hedge basket restriction applies to bracket orders
- kite: Cover orders (multi-leg, second leg spawned by first) documented; bracket or super orders with trailing SL not found
- kotak: Cover (CO) and bracket (BO) products and bracket parameters documented in the SDK README; PyPI page says cover/bracket 'no longer supported'; trailing SL not confirmed
- motilal: Not documented as order placement; only BracketOrder error codes (MO1103, MO1104); order detail returns stoploss, squareoff and trailingstoploss fields
- mstock: NOT FOUND on Orders page (only regular and amo varieties)
- nuvama: BO and CO product codes; bracket order target and stop-loss leg flags (tgtLg, slLg, flLg)
- samco: placeOrderBO and placeOrderCO endpoints exist. Trailing SL not stated.
- sharekhan: Trailing Stop Loss for Equities listed as a product type; bracket, cover and super orders not named
- shoonya: Place order product types C, M, I only; CO and BO not supported. Conflict: Exit Order page refers to exiting CO/BO legs
- stoxkart: Bracket Order only: entry, stop_loss_price, target_price, optional trailing_stop_loss; no cover or super orders listed
- tradejini: Bracket order (entry, target, stop loss, optional trailing stop) and cover order documented
- upstox: No bracket, cover or super order endpoint in the docs index. Closest items are multi-order, GTT with trailing stop-loss and GTT MULTIPLE.

other.order_slicing

- angel: Not found
- breeze: Not found; only disclosed_quantity field appears in order placement
- dhan: POST /orders/slicing for F&O orders above the freeze quantity
- fivepaisa: No evidence found
- flattrade: not found; freeze quantity (frzqty) appears in security info only
- fyers: isSliceOrder flag splits freeze-limit quantity into up to 10 slices per request; only NSE CM, NFO and BFO
- groww: No order slicing found
- hdfcir: No evidence found
- hdfcsky: No F&O order slicing or freeze-quantity handling found
- kite: Orders above freeze limit are automatically split into smaller internal orders
- kotak: Not mentioned in SDK README, PyPI page or official docs (freeze-quantity slicing); disclosed_quantity is not slicing
- motilal: No evidence found; Place Order has no slicing parameter
- mstock: NOT FOUND
- nuvama: Order slicing breaks a large order into smaller slices (equity derivatives segment)
- samco: No evidence found.
- sharekhan: No evidence found; not in docs index
- shoonya: No automatic slicing; freeze-limit error tells client to split orders manually
- stoxkart: Not found

- tradejini: No automatic freeze-quantity slicing found
- upstox: Place Multi Order with auto-slicing; V3 place order supports slicing. Freeze-quantity wording for F&O not found.

other.exit_all_kill_switch

- angel: Not found
- breeze: Per-instrument /squareoff endpoint only; no exit-all, cancel-all or kill switch found
- dhan: Exit All API: DELETE /positions exits all active positions and cancels all open orders for the day (no body; returns status and message). Kill switch (POST /killswitch) is separate and does not exit positions; P&L exit via POST /pnlExit
- fivepaisa: No evidence found
- flattrade: exit_order and ExitSNOOrder only (H and B products); no exit-all, cancel-all or kill switch found
- fyers: Cancel orders in bulk (Order Management) and exit positions (Positions) are documented; no exit-all, cancel-all or kill-switch endpoint is named
- groww: No exit-all or kill switch found
- hdfcir: No evidence found
- hdfcsky: No exit-all, cancel-all or kill-switch endpoint found
- kite: No exit-all endpoint: portfolio docs say exits are done by placing opposite orders; no kill-switch terms found on Orders, User, Changelog, docs root or support pages checked
- kotak: Only single-order cancel methods documented; no exit-all or kill-switch endpoint found
- motilal: No evidence found; cancel is per uniqueorderid only, no exit-all or kill switch
- mstock: Cancel-all documented (POST orders/cancelall); exit-all or square-off not found
- nuvama: POST /eq/trade/position/sqroff/v1/{userID} is documented as the endpoint for closing all intraday positions; no separate kill-switch endpoint found; request body shape not confirmed in raw notes
- samco: /position/squareOff only. No documented exit-all, cancel-all or kill-switch endpoint.
- sharekhan: Square-off all and cancel all orders listed as API session operations
- shoonya: Exit Order closes a single CO/BO parent only; no exit-all, cancel-all or kill switch in API navigation
- stoxkart: Not found
- tradejini: No exit-all, cancel-all or kill-switch endpoint in docs index
- upstox: Exit All Positions endpoint, Kill Switch Status and Kill Switch update endpoints.

other.order_position_stream

- angel: Not found; order postbacks also absent
- breeze: Order notifications via websocket subscribeFeeds getOrderNotification; no position stream found
- dhan: Live order-update WebSocket (wss://api-order-update.dhan.co) covers orders only; no position stream documented
- fivepaisa: Order-trade confirmation stream over websocket; position updates not documented
- flattrade: WebSocket streams order updates automatically on connect; position updates not documented
- fyers: General WebSocket streams real-time order, trade and position updates for the account

- groww: Feed streams equity and F&O order updates; position updates for derivatives only
- hdfcir: Order/position stream not stated; WebSocket documented for market data only
- hdfcsky: Order status polling documented; no order or position WebSocket stream found
- kite: WebSocket delivers order postbacks and updates in text mode; position stream not found
- kotak: create_order_feed() connects to wss:///realtime for order and position updates
- motilal: WebSocket trade stream with TradeSubscribe, OrderSubscribe, unsubscribe and heartbeat; only UAT URL documented (live URL marked WIP)
- mstock: Order status over WebSockets documented; position stream not found
- nuvama: Orders streamer is one of five streamers (reduced quotes, mini quote, orders, live news, market depth)
- samco: Order-update streaming absent. Streaming references cover market data only.
- sharekhan: Websocket section exists but body not captured; order or position stream not stated
- shoonya: Order and fill events pushed over WebSocket; position updates not confirmed on fetched pages
- stoxkart: Postback URL delivers order status for API orders only; no position stream; WebSocket documented for prices only
- tradejini: Order, position and trade event feeds on WebSocket (TypeScript and C# SDKs only)
- upstox: Order updates on WebSocket (payload identical to webhook) and a Portfolio Stream Feed API listed in the docs index. Position-specific stream content not confirmed.

other.market_price_protection

- angel: Not found
- breeze: protection_percentage appears in SquareOff sample with no description; no documented protection parameter on market or SL-M orders
- dhan: MPP applied automatically to API market orders from Mar 2026 (converted to limit); no MPP parameter found in orders docs
- fivepaisa: MPP named as suggested alternative to market orders; order parameter not documented on fetched pages
- flattrade: Not applicable: only LMT and SL-LMT permitted via API, so no market or SL-M orders; no market price protection parameter documented
- fyers: Not found in fetched trading docs
- groww: No market price protection found
- hdfcir: No evidence found
- hdfcsky: No vendor market price protection parameter found; OpenAlgo converts MARKET and SL-M to protected LIMIT/SL orders itself
- kite: market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.')
- kotak: Market Price Protection (MPP) parameter on place_order, default 0
- motilal: No evidence found; only a lower-circuit error (MO1073) on limit prices
- mstock: NOT FOUND
- nuvama: Not found in library docs
- samco: No evidence found.
- sharekhan: No evidence found; not in docs index
- shoonya: No protection parameter stated; MKT rejected on place order; SL-MKT behavior undocumented
- stoxkart: Not found
- tradejini: mktProt parameter on cover order market leg (required for market type); OpenAlgo adds MPP for Tradejini orders

- upstox: Market price protection parameter on Market and SL-M orders (announcement 'Market Protection for Market and Stoploss Market Orders' in docs index); default -1 (automatic protection); effective Mar 11 2026 per prior grade. Title-level evidence this run.

other.mtf_via_api

- angel: MTF holdings visible in API data but hard to identify (GitHub issue #73, Sep 2026); MTF order placement not documented
- breeze: Margin orders (margin product) placement, modification and cancellation via API prohibited
- dhan: MTF is a productType on the orders API
- fivepaisa: place-order takes isMTF flag to treat order as MTF; issue #317 (open) asks how to place MTF via API
- flattrade: Product code F (MTF) listed for place order
- fyers: MTF product accepted in GTT (CNC, MARGIN, MTF) and Java SDK v1.1.0 added MTF order placement; no dedicated MTF order page found
- groww: No MTF via API found
- hdfcir: No evidence found
- hdfcsky: No MTF order support found in sources checked
- kite: MTF product type; MTF orders added in changelog 2025-01-17
- kotak: MTF listed as an accepted product value in the SDK's place_order (NRML, CNC, MIS, CO, BO, MTF); no MTF-specific doc page
- motilal: MTF listed in Place Order product type field but omitted from the constants table; no MTF-specific docs
- mstock: Product MTF accepted in order placement
- nuvama: MTF is a product code for place-trade; MTF RMS holdings endpoint GET /eq/holdings/v1/rmsholdings/{userID}
- samco: No evidence found.
- sharekhan: No evidence found; not in order types list
- shoonya: No MTF endpoint in API navigation
- stoxkart: Not found
- tradejini: No MTF order mention found
- upstox: Product type MTF accepted on place order; 'MTF Product Support in Order Placement API' announcement; Convert Positions can switch to MTF.

other.position_conversion

- angel: Not found
- breeze: Not found in docs
- dhan: No position conversion endpoint found in orders docs; portfolio page content not retrieved
- fivepaisa: No evidence found
- flattrade: position_product_conversion(exchange, tradingsymbol, quantity, new and previous product type, buy_or_sell, day_or_cf) in SDK
- fyers: Positions section covers exiting or converting open positions (product-type conversion)
- groww: No position conversion found
- hdfcir: No evidence found
- hdfcsky: No position conversion endpoint found in sources checked

- kite: No position conversion endpoint found in notes
- kotak: Not mentioned in any fetched API source
- motilal: positionconversion (v2) endpoint with quantity field
- mstock: NOT FOUND
- nuvama: Convert position endpoint PUT /eq/trade/convertposition/v1/{userID}
- samco: Position Conversion endpoint /position/convertPosition exists (5 req/s session, 200 req/s IP).
- sharekhan: No evidence found; not in docs index
- shoonya: ProductConversion endpoint relabels product of a held position (e.g. MIS to CNC) without squaring off
- stoxkart: PUT /portfolio/position-conversion changes a position's margin product
- tradejini: Convert Position POST endpoint listed in orders section (parameters not re-checked)
- upstox: Convert Positions API switches open position margin product between intraday, delivery and MTF (listed in docs index with example code). Restrictions not checked.

other.charges_brokerage_api

- angel: Brokerage Calculator API named in changelog 1.4.8; endpoint details not retrieved
- breeze: GetBrokeragecharges endpoints for equity and F&O
- dhan: No charges or brokerage calculation endpoint found in orders docs; Funds and Statement pages not retrieved
- fivepaisa: No charges-calculator endpoint found; margin pages unreadable
- flattrade: not found; brokerage appears only as a get_limits response field
- fyers: Margin calculators exist, but no endpoint for brokerage, taxes or charges found on the Trading or Calculators pages
- groww: No charges or brokerage API found
- hdfcir: Not documented: community mirror lists brokerage calculators as not documented
- hdfcsky: Brokerage Calculator exists as a website tool only; no charges API found
- kite: POST /charges/orders for virtual contract notes (charges per order)
- kotak: Only margin_required documented; no charges or brokerage calculator endpoint found
- motilal: Brokerage Detail endpoint (getbrokeragedetail) returns rate schedule values, not a per-order charge calculation
- mstock: Charges and brokerage returned inside margin calculator response (e.g. brokerage 80.92 sample); no standalone charges endpoint found
- nuvama: No charges or brokerage calculation API found
- samco: No evidence found. spanCalculator is margin, not charges.
- sharekhan: Charges calculator is website-only; API charges not itemised
- shoonya: No charges or brokerage calculation endpoint in API navigation
- stoxkart: No charges calculator endpoint found; brokerage figure exists only in third-party AlgoTest docs
- tradejini: No charges calculator endpoint found; only basket margin
- upstox: Charges API calculates brokerage, taxes, STT and transaction charges for an order before trading.

other.instrument_master

- angel: Master contracts endpoint exists; format and refresh cadence not documented in fetched sources; tokens removed without notice (forum)
- breeze: Security Master zip file for token mapping, refreshed daily at 08:00; fields not described
- dhan: CSV scrip master, compact at https://images.dhan.co/api-data/api-scrip-master.csv and detailed at api-scrip-master-detailed.csv; per-segment GET /v2/instrument/{exchangeSegment}. Refresh cadence not documented
- fivepaisa: Scrip master referenced for ScripCode details; format and refresh cadence not stated
- flattrade: Scrip master downloadable per segment (incl. NSE Index Derivatives, MCX Commodity); format and refresh cadence not stated
- fyers: Symbol Master files listed under Market Information (tick size referenced for orders); format and daily refresh cadence not confirmed
- groww: Instruments endpoint documented (Free Trial; Oct 2025 changelog); file format and refresh cadence not documented
- hdfcir: Current instrument CSV (security master) documented in community mirror; refresh cadence and field docs not stated
- hdfcsky: No instrument or scrip master file found in sources checked
- kite: Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry
- kotak: Downloadable CSV scrip master via /script-details/1.0/masterscrip/file-paths; refresh cadence not stated
- motilal: Scrip master in JSON (getscripsbyexchangename) and CSV (getscripmastercsv); fields include maxqtyperorder; refresh cadence not stated
- mstock: Script Master CSV ('scriptmaster'); refresh cadence and field docs not stated
- nuvama: Contract file downloadable (downloadContract option; Symbol_exchange and exchangetoken from Contract File); file format and refresh cadence not documented
- samco: CSV scrip list for database import. Refresh cadence and fields not documented.
- sharekhan: ScripMaster section exists; format and refresh cadence not captured
- shoonya: Per-segment symbol master as zip of pipe/comma-delimited txt; re-download at start of each trading day
- stoxkart: JSON and CSV scrip master, all or per exchange; generated daily, fetch around 08:30 AM; key by exchange plus trading symbol
- tradejini: Symbol store endpoint returns CSV or JSON per scrip group; refresh cadence not stated
- upstox: Instruments files available (JSON per segment incl. BOD, MTF, MIS, suspended lists; Instruments and Search Instruments APIs listed in index). CSV instruments file deprecated per announcement. Refresh cadence and field docs not found.

other.live_ohlc_stream

- angel: Not found
- breeze: Live OHLCV channels 1SEC, 1MIN, 5MIN, 30MIN over socket.io path ohlcvstream; max 2000 scripts
- dhan: No candle or OHLC stream among documented feed packet types (ticker, quote, OI, prev close, full)
- fivepaisa: Streaming OHLC bars not documented (25/sec OHLC figure refers to REST)
- flattrade: not found; touchline gives per-tick OHLC fields, no candle stream; historical candles via TPSeries
- fyers: No live candle or OHLC socket listed; Data Socket sub-pages are Symbol Update, Indices Update, Market Depth Update, Lite Mode
- groww: Feed streams LTP, index value, depth, order and position; no OHLC stream documented (get_ohlc is a REST snapshot)
- hdfcir: OHLC live-only over WebSocket per OpenAlgo code (third-party); not confirmed in official docs; no candle API
- hdfcsky: No streaming OHLC or candle feed found; live market WebSocket marked Coming Soon
- kite: No OHLC or candle bar stream over WebSocket found; modes are ltp, quote, full
- kotak: OHLC only as a quotes() type; no streaming candle bars documented
- motilal: DayOHLC quote packet over WebSocket (day open/high/low, prev close) only; no 1s/1m candle streaming documented

- mstock: NOT FOUND (WebSocket modes are ltp, quote, full only)
- nuvama: No OHLC stream found; streamer field details not visible in fetched text
- samco: No evidence found. Quote stream carries day OHLC, not streaming candle bars.
- sharekhan: Live streaming OHLC chart listed on landing page (marketing); no documentation detail
- shoonya: WebSocket feed types enumerated as touchline ticks, market depth and order-status; no candle stream
- stoxkart: WebSocket modes are LTP, Quote and Full with no documented OHLC fields; OHLC only as REST snapshot (/quotes/ohlc)
- tradejini: Streaming OHLC at 1M, 5M and 30M intervals, documented
- upstox: Not found: feed modes (ltpc, option_greeks, full, full_d30) carry LTP/depth/greeks, with no OHLC or candle stream listed.

other.closing_auction_session

- angel: Not found
- breeze: Not found; CustomerDetails returns an exg_status field only
- dhan: Prev Close packet (code 6) exists; no closing auction fields documented
- fivepaisa: No evidence found
- flattrade: not found
- fyers: CAS fields in Quotes (0 where CAS does not apply; indicative_price falls back to last traded price); Market Status Definitions table includes CAS states (13 Aug 2026)
- groww: No closing auction session data found
- hdfcir: No evidence found
- hdfcsky: No closing auction session fields found in sources checked
- kite: No closing auction fields found in notes
- kotak: Not mentioned in any fetched source
- motilal: No evidence found in quote or feed fields
- mstock: NOT FOUND in quote packet fields
- nuvama: Not found in library docs
- samco: No evidence found.
- sharekhan: No evidence found
- shoonya: Not stated in fetched pages
- stoxkart: Not found
- tradejini: No closing auction fields found; only a post-close session 3:40-4:00 PM (market orders only)
- upstox: CAS support announced Aug 1 2026. Full Market Quotes V3 and full/full_d30 feeds add closing-auction values (indicative price, quantity, imbalance, reference price, CAS eligibility), effective Sep 4 2026.

other.streaming_protocol

- angel: WebSocket with binary SNAP_QUOTE frames parsed by official SDK; wire schema not documented (parsing bug reported)
- breeze: socket.io streams with JSON-style dict payloads in samples

- dhan: Binary packets with documented response codes (2 ticker, 4 quote, 5 OI, 6 prev close, 8 full) and parsed by the official Python SDK
- fivepaisa: JSON feed (example Token 1660) with epoch timestamps
- flattrade: JSON-style messages with t and k type fields (tk, tf, df, ud), per docs samples
- fyers: TBT: JSON requests, Protobuf responses with .proto schema; Data Socket wire format not stated in fetched pages
- groww: SDK-parsed feed (GrowwFeed) with documented sample keys and tsInMillis timestamps; wire protocol not stated
- hdfcir: Protobuf WebSocket feed; GenericDTO3.proto schema referenced only in community repo, not official docs
- hdfcsky: Protobuf frames (GenericDTOList) per OpenAlgo client and .proto file; vendor docs do not document the wire format
- kite: Binary packets with documented sizes (ltp 8 B, quote 44 B, full 184 B; depth entries 12 B); SDKs parse them; postbacks and updates use text mode
- kotak: SDK-parsed typed SFeed messages via callbacks; wire format (JSON or binary) not stated
- motilal: JSON-style key/value packets (e.g. 'Level': 1, 'Rate': ...) documented per quote type, consumed through official SDK (Mofsl.connect, Mofsl.Register)
- mstock: Binary packets (short 2 bytes, int 4 bytes) with documented structures; byte order not stated; SDK parses
- nuvama: Streaming described as WebSockets; payload format not specified
- samco: Newline-delimited JSON; response_format supports JSON only. Binary/protobuf not stated.
- sharekhan: WebSocket via SDK (SharekhanWebSocket with on_data callbacks); wire format not captured
- shoonya: JSON-style WebSocket messages with t and s keys (ak, tk, om); wire format not named explicitly
- stoxkart: Binary fixed-size packed structs (LayoutKind.Sequential, Pack=1), packet type by MsgCode, not JSON; LTP request code conflict (72 vs 71) unresolved
- tradejini: Binary feed parsed by official SDKs; documented fields ltp, bidPrice, askPrice, OI, iv, delta
- upstox: Wire format of the market feed not stated on the feed docs reviewed (no protobuf/JSON statement found).

other.browser_cors

- angel: No evidence on CORS; API root apiconnect.angelone.in
- breeze: No CORS statement; a JavaScript SDK is published on npm; browser use not stated
- dhan: CORS preflight to api.dhan.co/v2/profile returned HTTP 403 with no Access-Control-Allow-Origin header; treat as server-side only
- fivepaisa: NOT STATED
- flattrade: CORS enabled: OPTIONS preflight returns Access-Control-Allow-Origin: * and Allow-Headers: * (checked on Holdings endpoint)
- fyers: CORS policy not stated in API Standards or socket docs
- groww: No browser CORS information found
- hdfcir: Not stated in any fetched source
- hdfcsky: CORS or browser-direct access not documented; token exchange must be server-side per vendor guide
- kite: Docs root: endpoints are not cross site request enabled, cannot be called directly from browsers; server-side only
- kotak: Not stated in any fetched source
- motilal: The API endpoints cannot be called directly through browsers (server-side only)
- mstock: API endpoints not CORS enabled (server-side only)
- nuvama: Not found in library docs
- samco: No evidence found.
- sharekhan: No evidence found

- shoonya: CORS not stated; token exchange documented as server-to-server with secret
- stoxkart: Endpoints support cross-site requests so browsers can call them directly (REST); WebSocket is not browser CORS-based
- tradejini: Preflight returns Access-Control-Allow-Origin for an arbitrary origin and allows Authorization header (earlier OPTIONS check; not in current raw notes)
- upstox: Not stated in the docs index or pages checked.

other.mcp_ai_tooling

- angel: No official MCP or AI tooling found
- breeze: No MCP or AI tooling in official SDK repo or product page
- dhan: dhan-oss/dhanhq-skills: agent skills (Agent Skills standard, not MCP) for orders, portfolio, market data and option chains; 42 stars. Official status not explicitly confirmed (repo sits in dhan-oss org)
- fivepaisa: Xstream API AI assistant announced on official forum (title and summary only; content unverified)
- flattrade: Official MCP server repo flattrade/flattrademcp linked from Pi docs (marketing page still says MCP coming soon)
- fyers: Official: FYERS MCP, FYERS AI Skills and FYERS GPT listed under AI Integrations; FyersDev/fyers-skills repo
- groww: Only community MCP (developerJai/groww-mcp wiki); official MCP referenced by users but not confirmed on official docs
- hdfcir: No MCP server or agent tooling found for InvestRight
- hdfcsky: No official or community MCP server or AI tooling found
- kite: Zerodha publishes an agent-setup sandbox prompt page; no official MCP server found in notes
- kotak: No official or community MCP or AI tooling found in fetched sources
- motilal: No official MCP server or AI tooling found; search found no MCP server built on MO API
- mstock: NOT FOUND
- nuvama: Community/unofficial only: third-party MCP server listing (mcp.so, unclaimed, not Nuvama-affiliated) for buy/sell orders and holdings
- samco: No MCP or AI tooling found. Vendor mentions low-code and no-code connectors only.
- sharekhan: No MCP or AI tooling found
- shoonya: No official MCP server or AI tooling found in API navigation or notes
- stoxkart: No official or community MCP or AI tooling found
- tradejini: No official MCP or AI tooling found
- upstox: Official: Agent Skills (launched Jun 6 2026, built on upstox-python-sdk), MCP integration page, Claude plugin marketplace, agent quickstart.

other.third_party_integrations

- angel: No named platforms confirmed (OpenAlgo, AlgoTest, TradingView, AmiBroker not found); third-party connector libraries exist (digdigdig3 Rust, angelone-connect PyPI)
- breeze: OpenAlgo (ICICI Direct connection guide); AlgoTest, TradingView and AmiBroker not found
- dhan: No integrations list (OpenAlgo, AlgoTest, TradingView, AmiBroker) found in collected notes or trading-apis page
- fivepaisa: Tradetron setup guide; algo platforms named as target users; no OpenAlgo or AlgoTest mention found
- flattrade: OpenAlgo (broker integration docs); StockSharp connector; AmiBroker DLL requested, not provided (issue 12)

- fyers: No list of third-party platforms (OpenAlgo, AlgoTest, TradingView, AmiBroker) found; FYERS Automate is first-party
- groww: No official integration list found
- hdfcir: OpenAlgo (InvestRight plugin, release 14 Aug 2026)
- hdfcsky: OpenAlgo (broker added in v2.0.1.16, Jul 2026); MrChartist option hub third-party client
- kite: Community open-source projects found (e.g. login autologin script); OpenAlgo, AlgoTest, TradingView, AmiBroker not verified
- kotak: No platform integrations (OpenAlgo, AlgoTest, TradingView, AmiBroker) found in fetched sources
- motilal: OpenAlgo (Motilal broker plugin, listed as primary supported broker), Tradetron (setup guide); AlgoTest, TradingView, AmiBroker not found
- mstock: NOT FOUND in fetched sources
- nuvama: AlgoTest (broker page lists Nuvama API support)
- samco: QuantConnect lists Samco as a live brokerage.
- sharekhan: AMIBroker and TradingView mentioned on landing page; no detail
- shoonya: AlgoTest (broker page); AlgoJi API per third-party review: TradingView, MT4, MT5, AmiBroker, NinjaTrader, Python. OpenAlgo not found
- stoxkart: AlgoTest (live trading, equity and F&O); unnamed low-code/no-code algo platforms
- tradejini: OpenAlgo (adapter, streaming, MPP support); no other platforms found
- upstox: Tradetron seen in customer reports only. No official integration list found; OpenAlgo, AlgoTest, TradingView, AmiBroker not mentioned in notes.

other.brokerage_per_order

- angel: Rs 20 flat per executed order plus taxes (third-party FAQ)
- breeze: Per client's existing brokerage plan, capped at SEBI limit; no Rs per order figure stated
- dhan: Standard rates: Rs 0 equity delivery; intraday equity Rs 20 or 0.03% of trade value, whichever is lower; F&O Rs 20 per executed order. No separate API rate stated
- fivepaisa: Rs 20 per executed order (delivery, options); intraday and futures 2.5% or Rs 20 whichever lower; conflicting Rs 0 banner
- flattrade: 0 advertised (zero brokerage); plan terms and exchange or statutory charges not captured
- fyers: Futures: Rs 20 or 0.03% per executed order, whichever is lower; options: flat Rs 20 per executed order; statutory charges (STT, GST, exchange, stamp, SEBI, DP) extra. FYERS Prime: Rs 15 per executed order, prepaid
- groww: No per-order brokerage found; 20% cash-segment margin is trading margin, not an API fee
- hdfcir: Not stated in any fetched source
- hdfcsky: Brokerage Calculator on site; per-order API brokerage rate not stated in sources checked
- kite: General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or extra fee is stated; re-checked 2026-11-03, no API row on charges or products pages
- kotak: Rs 0 per API order on Trade Free plans (no API usage charge); exchange, SEBI, GST and statutory charges apply; bracket square-off leg attracts standard brokerage; non-API Trade Free after 30 days: Rs 10 or 0.05% intraday, 0.20% delivery, Rs 10 F&O
- motilal: Not stated; Brokerage Detail returns rate values with no per-order figure published
- mstock: Rs 10/order official (F&O, MTF, intraday); Rs 0 for first 30 days intro offer; third-party says Rs 5 (conflict)
- nuvama: Conflicting: Rs10/order (AlgoTest, account-opening benefit); Rs20 per executed order (Nuvama Lite, Chittorgarh); Rs20 per futures order (AlgoTest); API applicability not stated

- samco: General pricing page (not API-specific): equity intraday Rs 20 or 0.25% whichever is lower; delivery Rs 20 or 2.5% whichever is lower; F&O Rs 20 per executed order. A 2023 review says flat Rs 20 for API trades.
- sharekhan: Existing Sharekhan brokerage applies to API orders; no Rs or percent figure given (pricing page: will not exceed SEBI and exchange limits)
- shoonya: Equity delivery Rs 0; intraday equity and futures 0.03% or Rs 5 (lower) per order; options flat Rs 5 plus GST per order. Unverified forum claim of Rs 5 intraday from Dec 2024
- stoxkart: Rs 15 per executed order for intraday and F&O (per AlgoTest, third-party); other segments not stated
- tradejini: Headline Rs 20 per executed order on equity and F&O; delivery 0.1% or Rs 20 (min Rs 5), intraday 0.05% or Rs 20 (min Rs 5), futures 0.05% or Rs 20, options Rs 20; dealing desk Rs 50 + GST; flat Rs 20 overstated
- upstox: Rs 10 per executed order via individual-account API (promo, valid till 31 Dec 2026 per official page; GTT excluded). Rs 20 per order for multi-client vendor API orders (staff statement).

other.latency_claims

- angel: Unverified: intro page claims 10 trades per second; blog says latency reduced, no figures
- breeze: No latency or uptime claim found; only real-time order status via websockets
- dhan: UNVERIFIED vendor and staff claims: 90% of orders executed within 25 ms (Jun 2025 forum thread); ~40% under 10 ms and ~90% under 20 ms (Dhan staff, Apr 2025); 98% under 20 ms (AlgoMatrix blog, Mar 2025 data)
- fivepaisa: Unverified claim: ~99.9% uptime (staff, 2025-07-10); no latency figure stated
- flattrade: Order execution under 10 ms and 99.9% uptime (marketing claims, unverified)
- fyers: Unverified user report: 30-35 ms order latency, somewhat better than a prior broker (Reddit, approx. Aug 2025); no FYERS-stated latency or uptime SLA found
- groww: Groww average latency 65ms per MarketCalls (author-reported, unverified); Groww faster than Dhan per openbroker.in (second-hand, unmeasured)
- hdfcir: No vendor latency or uptime claim found
- hdfcsky: Vendor says 'low-latency' Trading, Market Data and WebSocket APIs; no figure given (unverified claim)
- kite: UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026)
- kotak: Vendor claim: order execution under 50 ms (press release and guide); unverified; aggregator notes it is a claim, not a benchmark
- motilal: No vendor latency or uptime claim found; FAQ notes only that a VPN static IP may add latency
- mstock: Claim: <100 ms response latency, 10 orders/sec (official page, unverified); user reports of high order latency
- nuvama: No numeric latency claim; reviewer adjectives only ('fast, reliable, scalable'), unverified
- samco: Unverified vendor claim: up to 200 orders per second per user. No latency or uptime figure found.
- sharekhan: Up to 25 ms per trade (landing-page vendor claim, unverified)
- shoonya: No latency or uptime claims found in fetched pages; terms disclaim uptime and response times
- stoxkart: Unverified vendor claim: WebSocket is the best option for speed, latency, resource use and bandwidth; no figures given
- tradejini: Vendor claim, unverified: API response under 20 ms; no uptime or SLA stated
- upstox: Vendor claim, unverified: non-order API latency under 100 ms. Order throughput advertised as 50 requests/sec.

other.static_ip_management_api

- angel: Self-service static IP registration via SmartAPI dashboard (My Profile > My APIs, 'Add App'); API for it not found
- breeze: IP changeable once per week; self-service interface not described; changing IP deletes existing keys
- dhan: Modify IP API for the whitelisted static IP, usable once every 7 days; IP setup available via API (v2.4)
- fivepaisa: Static IP managed via self-service Xstream dashboard only; no documented API
- flattrade: Primary or secondary IP changeable once per calendar week via portal; no API endpoint documented
- fyers: No API or dashboard endpoint for static IP update found in docs; community describes changing via activating a new app, and IP change limited to once per calendar week
- groww: Groww whitelists the static IP; no API to manage IPs found
- hdfcir: Static IP set on app form; corrections by email after 7 days; no static-IP API documented
- hdfcsky: No self-service static IP management API or dashboard found
- kite: Self-service in the developer console (dashboard) only, changes effective instantly, capped at one per calendar week; no API found, so the static IP cannot be changed programmatically
- kotak: No client-side static IP registration API documented; registration is via the Kotak static IP page
- motilal: Static IP updated through the MO API Developer Portal (dashboard self-service); no API endpoint documented
- mstock: NOT FOUND for mstock
- nuvama: Static IP is mandatory per changelog, but no static IP management API found
- samco: Self-service via Web Dashboard. Legacy /ip/ipRegistration and /ip/ipUpdate still work but are deprecated. GET /ip/whoami checks the sending IP.
- sharekhan: Not stated on Sharekhan API pages
- shoonya: Self-service IP whitelisting screen with checkbox and up to 2 IPs; blog says changing the static IP requires going through the broker
- stoxkart: Not found on any fetched page; SDK looks up public IP but does not send it
- tradejini: Static IP managed in Developer Portal dashboard (no management API documented); updates frequency-limited
- upstox: Self-service: PUT /user/ip (primary required, secondary optional), Get Static IPs and Update Static IPs APIs, available from 2026-04-10. One change per calendar week.

other.account_extras

- angel: EDIS API and profile (getProfile) confirmed; payout, IPO, mutual funds not confirmed
- breeze: Payout, IPO, mutual fund and EDIS APIs not found; CustomerDetails and profile fields only
- dhan: User Profile API (v2.2); Funds and Margin, Statement and EDIS in navigation (details not retrieved). Payout, IPO and mutual fund APIs not found
- fivepaisa: No payout, IPO, MF, EDIS or profile API found in notes
- flattrade: Funds: Get Max Payout Amount; alerts; holdings; no IPO, mutual fund, EDIS or profile endpoints found
- fyers: Account section: Profile (GET), Funds (GET), Holdings (GET, equity and MF holdings), Logout (POST), EDIS/DDPI; IPO, separate mutual fund and DP endpoints not listed
- groww: User Profile API (2 Dec 2025); realised_pnl in positions API (8 Nov 2025)
- hdfcir: Funds/margins (available, utilised, pledge limits), holdings, cumulative positions; payouts, IPO, mutual funds, EDIS, profile not documented
- hdfcsky: No non-trading account APIs (payout, IPO, MF, EDIS, profile) found in sources checked
- kite: No payout, IPO, mutual fund, EDIS or profile API found in notes

- kotak: Holdings, positions, limits and margin APIs; funds add/withdraw via API FAQ exists (answer not captured); direct MF lumpsum or SIP restricted per one user report
- motilal: Get Profile (login/v5/getprofile), holdings, positions, margin reports, brokerage and participant detail; no payout, IPO, mutual fund or EDIS endpoints (EDIS only as a holding field)
- mstock: Portfolio, Position and user details (UserDetails); payout, IPO, mutual fund, EDIS not found
- nuvama: Holdings and RMS holdings, limits (margin available/utilized), order book, order history, net positions, transaction history, client details (algo flag)
- samco: Only /limit/getLimits (user limits) found. Payout, IPO, mutual fund, EDIS and profile APIs not found.
- sharekhan: Account reports: limits, order status and details, trade book, positions, holdings; login, logout, profile data, funds, order and trade history
- shoonya: Daily MTM, Positions, Holdings, Funds and Limits endpoints; no payout, IPO, mutual fund, EDIS or profile endpoints in navigation
- stoxkart: GET /funds (fund, cash, margin for equity and commodity); holdings; positions (net/day); order and trade book reports; getProfile
- tradejini: getUserDetails and funds limits endpoints; no payout, IPO, mutual fund or EDIS APIs found
- upstox: Payouts (get payouts, payout modes, payins, request, modify, cancel), IPO (get IPOs, apply, cancel), Mutual Fund (holdings, orders, SIPs), Trade P&L reports, Payments, User profile, Funds and Margin V3.

5. Broker profiles

Angel One SmartAPI (angel)

As of 2026-11-03. Fields marked ? are unknown.

access_cost

- **api_fee**: Free; no API or subscription fee. Normal brokerage (flat Rs 20 per executed order plus taxes) applies (medium). Spot-check 2026-11-03: Rs 20 brokerage not on the cited page (unverified) source
    - note: Rs 20 brokerage figure is from third-party FAQ https://www.chittorgarh.com/faq_pg/is-angel-broking-smartapi-free/3252/
- **free_tier**: Entire SmartAPI (Trading, Market Feeds, Historical Data) is free of cost (high) source
- **required_account**: Angel One trading account (orders are placed in the client's Angel One account) (medium) source
- **data_addons**: None charged; Market Feeds and Historical Data APIs are free (medium) source
    - note: Third-party FAQ also says no fees for any SmartAPI API

auth

- **method**: loginByPassword (client code + password; community says 4-digit MPIN is passed in the password field) returns JWT; generateTokens endpoint refreshes. Login unchanged by static-IP key (medium) source
    - note: MPIN detail is a user post https://smartapi.angelone.in/smartapi/forum/post/18931; 'no changes in login' is an admin reply at https://smartapi.angelone.in/smartapi/forum/post/18437
- **token_expiry**: Auth token expires daily at 00:00 (midnight) for old and new API keys; relogin required (loginByPassword) (high) source
- **totp_automation**: SDK README sample generates the login TOTP with pyotp (pyotp.TOTP(token).now()), so TOTP login can be automated; no account-setup detail in notes (medium) source
- **static_ip_required**: Yes for order APIs (place, modify, cancel) and GTT (create, modify, cancel); orders from non-registered IPs are blocked from 1 Apr 2026. Other APIs do not need it. Only IPv4 officially supported (IPv6 promised; unconfirmed user claim it was added) (medium). Spot-check 2026-11-03: 'IPv4 only' not on the cited page (unverified) source
    - note: Admin scope statement: https://smartapi.angelone.in/smartapi/forum/post/18437
- **multi_user**: A static IP maps to one client at a time, shareable only between family members; a SmartAPI profile maps to one account; only 1 API key allowed for non-registered client-generated algos (medium) source
    - note: Forum 5254 says only 1 key for non-registered algos; users complain family accounts hit 'Primary Static IP is already associated with another app'

live_data

- **rest_quotes**: REST getLtpData and market quote endpoints, each 10/sec, 500/min, 5000/hr (high) source
- **depth_levels**: 5 levels (best_5 buy/sell fields in SNAP_QUOTE mode) (low; spot-check 2026-11-03: 5-level count not stated on cited page, unverified) source
    - note: Inferred from user issue #71 on best_5 fields; no official doc retrieved. Third-party connector lists Depth 20 mode (unofficial)
- **ws_instrument_limit**: 1000 token subscriptions per WebSocket session (duplicate token+mode not counted) (low) source
    - note: Forum announcement via search snippet only; an SDK mirror has a client-side quota_limit = 50
- **ws_connection_limit**: Up to 3 concurrent WebSocket connections per client code (low) source
    - note: Forum announcement via search snippet only
- **tick_by_tick**: ?
    - note: Not stated; users report missing or delayed ticks with very large token counts (anecdotal)
- **oi**: ?

    - note: Not found in notes
- **greeks**: Option Greeks API exists (SDK changelog 1.4.8: 'Option Greek') (medium) source
    - note: No details on fields or limits
- **indices**: ?
    - note: Not found in notes

historical

- **intervals**: ?
    - note: SDK example shows only ONE_MINUTE; full interval list absent
- **intraday_depth**: Up to 8,000 candles in a single getCandleData request (Angel One blog; per-interval look-back days not stated) (low) source
    - note: Refetch 2026-11-03: blog quote 'retrieve up to 8,000 candles in a single request.'; max look-back days per interval NOT FOUND
- **daily_depth**: ?
    - note: Not found in notes
- **expired_fno**: ?
    - note: Not found in notes
- **continuous_futures**: ?
    - note: Not found in notes
- **cost**: Free of cost (high) source

trading

- **order_types**: LIMIT confirmed in SDK example (variety NORMAL). Market and IOC orders prohibited for algo trading from 1 Apr 2026. SL, SL-M, STOPLOSS and AMO not shown in notes (medium) source
    - note: SDK example: https://github.com/angel-one/smartapi-python
- **gtt**: GTT supported: create, modify, cancel rules (create sample with price, triggerprice, qty, timeperiod 365); createRule 9/sec, 500/min, 5000/hr (medium) source
    - note: Rule count limits absent
- **basket**: ?
    - note: Not found in SDK README or docs landing page (absence, checked 2026-11-03)
- **multi_leg_options**: ?
    - note: Not found in notes
- **margin_calculator**: Margin Calculator API advertised as a 50-position calculator (medium) source
    - note: Refetch 2026-11-03: marketing page quote '50-position Margin Calculator API'; endpoint not seen in SDK README
- **postbacks_webhooks**: ?
    - note: Not found in SDK README or docs landing page (absence, checked 2026-11-03)
- **segments_exchanges**: Historical Data API covers NSE Equity and NFO Futures segment; trading segment list not in notes (low) source

limits

- **rest_rate_limits**: Per client code, per endpoint. placeOrder/modifyOrder/cancelOrder 9/s, 500/min, 1000/hr; GTT createRule 9/s, 500/min, 5000/hr; getOrderBook and getTradeBook 1/s; getLtpData and quote 10/s, 500/min, 5000/hr; getCandleData 2/s, 80/min, 5000/hr; loginByPassword 1/s; generateTokens 1/s, 1000/hr; getProfile 3/s, 1000/hr; getHolding 1/s. Excess returns HTTP 403 (high) source
- **orders_per_second**: 9 per second combined across place, modify and cancel (docs). SEBI/NSE standard TOPS threshold is 10 OPS per exchange/segment (high) source
    - note: Other sources say 10 or 20; see conflicts
- **daily_caps**: ?
    - note: No daily order cap in notes; hourly caps exist (e.g. placeOrder 1000/hr)

dev_experience

- **official_sdks**: Official Python SDK smartapi-python (github.com/angel-one); other language SDKs not in notes (medium) source
- **doc_quality**: ?
  - note: Official docs landing page returned only its title; rate-limit page is clear but other docs not assessed
- **sandbox_paper**: ?
  - note: Not found in SDK README or docs landing page (absence, checked 2026-11-03)
- **changelog_freshness**: ?
  - note: SDK changelog version 1.4.8 seen without date
- **github_activity**: Open issues #71 (21 Jun 2026) and #73 (19 Sep 2026) on smartapi-python, so repo has recent developer activity; maintainer responses not seen (low) source

compliance

- **sebi_algo_fit**: Aligned with NSE retail algo circular from 1 Apr 2026: registered static IP mandatory for orders; algos under 10 OPS use a generic exchange algo ID, above threshold need exchange registration; market and IOC orders prohibited; client-generated algo uses client's own IP, empanelled-vendor algo may use vendor or client IP (high) source
  - note: Also https://smartapi.angelbroking.com/exchange-regulations; open question on black-box algo empanelment unanswered in TradingQnA thread
- **redistribution_commercial_terms**: General T&C bar copying, selling, redistributing or databasing platform content; commercial use of website materials needs prior written consent; third-party market data stays under licensing. Separate Smart API T&C governs API use but was not retrieved (medium) source

reliability_support

- **outages**: Cloudflare outage 5 Dec 2025 hit trading platforms (apps kept working); undated forum outage with internal server errors and forced relogin; master contracts endpoint failure reported on Telegram (medium) source
  - note: Forum outage: https://smartapi.angelone.in/topic/2970/api-websites-down-internal-server-error/12
- **support_channels**: SmartAPI community forum with admin replies; email to partner/SmartAPI support (users report slow or no replies) (low) source
- **community_size**: ?
  - note: Not found in notes

community

praise

- Multibagg article says SmartAPI is free, cites 10 orders/sec and reliable WebSocket for multi-strategy use, 'often presented as the strongest free API option' (secondhand) source
- Angel One blog says recent SmartAPI updates reduced latency (no figures) source

complaints

- Order errors even after IP whitelisting; no reply seen source
- One SmartAPI profile maps to one account, each needing its own static IP; family member hits 'Primary Static IP is already associated with another app' source
- NIFTY/BANKNIFTY symbol tokens removed without notice source
- Master contracts endpoint failing, blocking trading for the day source

- No IPv6 support (apiconnect.angelone.in has no IPv6 address); one reply claims it was later added, unconfirmed source
- best_5 buy/sell fields swapped in SNAP_QUOTE parsing (GitHub issue #71, 21 Jun 2026) source
- Unable to identify MTF holdings via API (GitHub issue #73, 19 Sep 2026) source
- Occasional reliability issues during high market volatility (secondhand, not a benchmark) source
- Missing or delayed ticks with large token counts; about 2000 tokens got no response while 10 worked source

comparison_claims

- Multibagg: SmartAPI often presented as the strongest free broker API option source

other_features

- **Extra REST tools**: EDIS, brokerage calculator, option Greeks, top gainers/losers, put-call ratio APIs (SDK changelog 1.4.8) source
- **API root endpoint**: https://apiconnect.angelone.in source
- **Rate-limit scope**: Calculated per client code; order APIs share one cumulative per-second cap; excess returns HTTP 403 source
- **Historical data coverage**: NSE Equity and NFO Futures segment source
- **WebSocket**: Real-time WebSocket feed; SDK sample uses mode 1 and action 1 (full mode list not shown) source
- **Static IP registration**: SmartAPI My Profile > My APIs (new), or API dashboard 'Add App'; obtain IP from ISP or VPN source
- **Legacy API keys**: Old keys (no static IP) and new static-IP keys coexisted during transition; users told to migrate source

flags

- Official docs landing page returned only a title; many fields rest on SDK README, forum posts and announcements
- Several limits (WebSocket 1000 tokens, 3 connections) come from forum search snippets with unchecked quotes
- Order rate conflicts: 9/s (docs), 10/s (forum, intro page), 20/s (blog, old forum table, third-party)
- Static IP rules changed over time (older forum: up to 5 IPs per key, not mandatory until 1 Oct; newer: mandatory from 1 Apr 2026, one client per IP)
- Separate Smart API terms and conditions not retrieved
- Spot-check 2026-11-03: unverified on cited pages: depth_levels (5 levels), Rs 20 per-order brokerage, 'IPv4 only'

conflicts

- **limits.orders_per_second**: 9 per second combined (https://smartapi.angelone.in/docs/RateLimit); 10 per second (https://smartapi.angelone.in/smartapi/forum/topic/5254/important-updates-to-smartapi-in-compliance-with-sebi-guidelines); 20 per second (https://www.angelone.in/news/angel-one-smartapi-the-secret-to-easy-automated-algo-trading); 20 per second (old table row) (https://smartapi.angelone.in/smartapi/forum/topic/4387/changes-in-api-rate-limit) Resolution: Use 9/s from the official RateLimit docs page; others are older, blog or forum figures
- **live_data.ws_instrument_limit**: 1000 per WebSocket session (https://smartapi.angelbroking.com/smartapi/forum/post/9959); 50 (client-side quota_limit in SDK mirror) (https://cocalc.com/github/angel-one/smartapi-python/blob/main/SmartApi/smartWebSocketV2.py) Resolution: Unresolved; SDK mirror version unknown
- **live_data.depth_levels**: 5 levels (best_5 fields) (https://github.com/angel-one/smartapi-python/issues); Depth 20 mode (unofficial connector)

(https://docs.rs/crate/digdigdig3/0.1.12/source/src/stocks/india/angel_one/mod.rs) Resolution: Unresolved; no official source

- **auth.multi_user**: Up to five static IPs per API key (https://smartapi.angelone.in/smartapi/forum/topic/5254/important-updates-to-smartapi-in-compliance-with-sebi-guidelines); A static IP maps to one client at a time; family sharing allowed (https://www.angelone.in/news/market-updates/what-s-changing-in-angel-one-s-smartapi-access-from-april-1-2026) Resolution: Prefer the newer 1 Apr 2026 announcement
- **auth.static_ip_required**: Not mandatory yet, deadline 1 Oct (https://smartapi.angelone.in/smartapi/forum/topic/5254/important-updates-to-smartapi-in-compliance-with-sebi-guidelines); Mandatory for order execution from 1 Apr 2026 (https://www.angelone.in/news/market-updates/what-s-changing-in-angel-one-s-smartapi-access-from-april-1-2026) Resolution: Newer notice supersedes

Spot-check 2026-11-03

Result: 11 confirmed, 0 contradicted, 1 not found on page (plus partial gaps). Fields below are unsupported by the cited page as of 2026-11-03; confidence lowered one step (depth_levels already low).

- api_fee: Rs 20 per-order brokerage not on cited page (now low)
- static_ip_required: 'IPv4 only' not on cited page (now low)
- multi_user: '1 API key for non-registered algos' not on cited page (now low)
- order_types: 1 Apr 2026 date for Market/IOC prohibition not on cited page (now low)
- depth_levels: 5-level count not stated on cited page (stays low)

ICICI Direct Breeze API (breeze)

As of 2026-11-03.

access_cost

- **api_fee**: Free; no cost or fees to access Breeze API or its data (source, high)
- **free_tier**: Entire API free for all ICICIdirect customers, including backtesting historical data and websocket live data (source, high)
- **required_account**: ICICIdirect account with an ICICI Securities demat account; Resident Indians only, NRIs excluded (source, high)
- **data_addons**: None stated; data included free. F&O brokerage per existing mapped plan, capped at SEBI limit (source, medium)

auth

- **method**: api_key + api_secret + session_token; session token obtained from API user portal login URL (api_key in URL), then generate_session(api_secret, session_token). OTP to registered mobile per third-party guide (source, medium)
- **token_expiry**: Session key expires 24 hours after generation or at midnight (source, medium)
- **totp_automation**: No; session key must be generated manually every day per SEBI guidelines. A TOTP option exists on the login page but automated daily generation is not confirmed (source, medium)
- **static_ip_required**: Yes, mandatory from 1 April 2026; orders only from registered primary/secondary static IP; IP changeable once per week (source, medium)
- **multi_user**: No; client restricted to a single API key and only one active API key per static IP (source, high)

live_data

- **rest_quotes**: Yes; quotes and option chain endpoints; GetQuotes sample shows single best bid/offer; subject to 100/min REST limit (source, medium)
- **depth_levels**: ? (Stream type 'Market Depth' (.2 qualifier) exists but level count not stated; REST GetQuotes shows only best bid/offer; issue #242 reports depth missing for some stocks)
- **ws_instrument_limit**: Max 2000 scripts subscribed at a time across OHLC and live streaming (source, high)
- **ws_connection_limit**: ? (Not stated in fetched docs or search results)
- **tick_by_tick**: Yes; multiple stock tokens on a single websocket connection with live tick stream (source, high)
- **oi**: Yes; open_interest field in option chain and order-feed samples (source, medium)
- **greeks**: ? (Not stated in official docs; issue #226 reports no IV/IVP in option chain data)
- **indices**: Index data present in live feeds (exchange code 3) (source, medium)

historical

- **intervals**: 1second, 1minute, 5minute, 30minute, 1day (v1 list shows 1minute/5minute/30minute/1day; FAQ confirms 1sec and 1min); weekly reported failing (issue #211) (source, low)
- **intraday_depth**: 3 years of second-level LTP data (product page claim) (source, medium)
- **daily_depth**: ? (Not stated; only the 3-year second-level LTP claim found)
- **expired_fno**: Reportedly reachable via v2 endpoint (single user observation; third-party claims up to 3 years of options data); issue #224 reports 1-second option data unavailable (source, low)
- **continuous_futures**: ? (Not stated in docs or product page)
- **cost**: Free (source, high)

trading

- **order_types**: Limit orders only; market orders not permitted; Margin and Option Plus orders prohibited via API (source, high)
- **gtt**: Yes; single-leg and three-leg (cover_oco) GTT, limit orders only (source, high)
- **basket**: ? (No API method found; basket material is app-only)
- **multi_leg_options**: ? (No documented multi-leg or spread endpoint found)
- **margin_calculator**: Yes; returns SPAN, non-SPAN, order and trade margin (issue #241: HTTP 401 for MCX) (source, high)
- **postbacks_webhooks**: No webhook/postback found; order notifications via websocket subscription (getOrderNotification) (source, medium)
- **segments_exchanges**: NSE equity and F&O; docs state BSE and MCX securities not available (source, medium)

limits

- **rest_rate_limits**: 100 calls per minute and 5000 calls per day per user, across all endpoints (source, high)
- **orders_per_second**: Combined cap of 10 orders per second (place, cancel, modify, square-off); above this orders auto-rejected; up to 10 OPS per exchange needs no algo registration (source, high)
- **daily_caps**: 5000 API calls per day (source, high)

dev_experience

- **official_sdks**: Python, Java and JavaScript (breezeconnect on npm); Python latest listed 1.0.68 (source, high)
- **doc_quality**: Per-endpoint sample JSON and Learning Hub exist, but depth, Greeks, WS limits, basket/multi-leg and session expiry are absent from docs (source, low)
- **sandbox_paper**: No official sandbox, paper trading or postback found (source, low)
- **changelog_freshness**: SDK changelog lists versions (1.0.68 Aggressive Limit Order; 1.0.60 GTT; 1.0.57 BFO), undated (source, medium)
- **github_activity**: 126 open issues on Python SDK (Oct 2026 snapshot); latest issue #246 opened 25 Oct 2026; many with no visible maintainer reply (source, medium)

compliance

- **sebi_algo_fit**: Static IP mandatory from 1 April 2026, single key per IP; up to 10 OPS per exchange needs no algo registration (source, high)
- **redistribution_commercial_terms**: ? (Not stated; only the cost/fee statement was found)

reliability_support

- **outages**: Recurring user reports: historical API errors 'Unable to retrieve customer details' (#229, #245), 'is historical API down' (#243), cancel/modify reported succeeding without effect (#238), websocket connect failures (#213, #234) (source, low)
- **support_channels**: Email breezeapi@icicisecurities.com; no phone or helpline number on the API page (source, medium)
- **community_size**: ? (Not found in searches or fetched pages)

community

praise

- Multibagg 2026-05-22: 'Reliable and bank-integrated feel' (secondary) (source)
- Multibagg 2026-05-19: ICICI Breeze discussed as a brand-trust choice (secondary) (source)
- Vansh_Oberoi 2025-04-21: 2025 Nifty weekly options backtest matched live trading, though 'not very certain' about pre-2025 data (source)

complaints

- yash_r 2024-04-17: historical v2 data 'a mess' with missing, duplicate and placeholder data; support 'stopped replying' (source)
- Anubhab_Halder 2025-02-14: get_quotes 'no data found' and 'invalid checksum' despite matching headers and payloads, no fix (source)
- Issue #238 (Apr 2026): CASH/LIMIT cancel returns success but order unchanged (source)
- Issue #241 (Apr 2026): margin_calculator/get_margin return HTTP 401 for MCX, NFO works (source)
- Issue #242 (Jun 2026): market depth missing for some stocks (source)
- Issue #226 (Nov 2025): no IV or IVP in option chain data (source)
- Issue #224 (Nov 2025): cannot fetch 1-second data for option contracts (source)
- Issue #211 (Jul 2025): weekly interval historical data not working (source)
- Issue #229 (Dec 2025, reply Aug 2026): customer-details error blocks code during outage, no answer visible (source)
- Multibagg 2026-05-19: described as 'slightly dated and slower than discount brokers' (secondary) (source)
- TradingQnA 2024-09-07: ICICI symbols differ from NSE/BSE (NIFFIN for FINNIFTY, CNXBAN for BANKNIFTY) (source)

comparison_claims

- yash_r 2024-04-17 rejects Kite Connect on cost ('not in my budget'); cost-only comparison (source)
- Multibagg 2026-05-19: slower than discount brokers (secondary) (source)

other_features

- **Live OHLCV stream**: Intervals 1SEC, 1MIN, 5MIN, 30MIN via socket.io path 'ohlcvstream' (source, high)
- **Brokerage charge endpoints**: GetBrokeragecharges endpoints for equity and F&O (source, high)
- **Symbol mapping**: ICICI stock codes differ from NSE/BSE symbols (NIFFIN = FINNIFTY, CNXBAN = BANKNIFTY) (source, low)
- **Existing keys deleted at static IP change**: All existing Breeze API keys were deleted when static IP mandate took effect (source, high)
- **Third-party paper trading engine**: Community engine prices fills from Breeze 1-second history; not an ICICI feature (source, low)

flags

- Many fields '?' (depth levels, WS connection limit, Greeks, daily depth, continuous futures, basket, multi-leg, redistribution terms, community size); docs fetch was truncated (first 100k of 224k chars read)
- Limit orders only; no market orders via API
- Recurring historical/customer-details errors and unanswered GitHub issues

conflicts

- **historical.intervals**: 1minute, 5minute, 30minute, 1day (v1 list) (source) vs 1sec and 1min historical data available (source). Resolution: Union listed; 1second comes from FAQ and v2 endpoint, v1 list omits it
- **live_data.depth_levels**: Stream type 'Market Depth' (.2 qualifier) exists (source) vs Market Depth Details not available for some stocks (source). Resolution: Level count unstated; left as ?

Spot-check 2026-11-03

- 11 of 12 spot-checked fields confirmed; 0 contradicted; 1 not found on cited page.
- historical.intervals: unsupported by cited page as of 2026-11-03 ("1second" appears only in the live candle stream, not the historical list); confidence lowered medium to low.

- auth.static_ip_required: "changeable once per week" unsupported by cited page as of 2026-11-03; confidence stays medium (already lowered earlier).

Dhan (DhanHQ API) profile

As of 2026-11-03. Machine-readable version: `dhan.json`. "?" = not found in notes.

Cost

- Trading APIs free (Rs 0, no monthly charge, every Dhan user): https://dhanhq.co/trading-apis
- Data APIs (live feed + historical) Rs 499 + taxes/month; trade-count free promo discontinued: https://dhan.co/support/platforms/dhanhq-api/is-the-dhanhq-data-api-subscription-free-if-i-execute-a-minimum-number-of-trades-every-month/
- Requires a Dhan account: https://dhanhq.co/docs/v2/

Auth

- Access token header; routes: Dhan Web token, API key/secret consent flow, TOTP `generateAccessToken` (v2.5). Token 24h, expired cannot be renewed; key/secret 12 months. https://dhanhq.co/docs/v2/authentication/
- Static IP mandatory for order placement (primary + secondary, 7-day edit lock). Same source.
- Multi-user: ?

Live data

- REST quotes: LTP/OHLC/quote, 1000 instruments, 1 req/s. https://dhanhq.co/docs/v2/market-quote/
- WebSocket: 5 connections x 5000 instruments, 100 per subscribe. https://dhanhq.co/docs/v2/live-market-feed/
- Depth: 5 (std), 20 (50 instr/conn), 200 (1 instr/conn), NSE only. https://dhanhq.co/docs/v2/full-market-depth/
- OI, greeks and IV via option chain (1 unique req/3 s). https://dhanhq.co/docs/v2/option-chain/
- Indices via IDX_I: https://dhanhq.co/docs/v2/annexure/

Historical

- Intraday 1/5/15/25/60 min, 5 years, 90 days/request; daily back to inception. https://dhanhq.co/docs/v2/historical-data/
- Expired options only, 5 years, 30 days/call; futures not covered. https://dhanhq.co/docs/v2/expired-options-data/
- Continuous futures: ?

Trading

- LIMIT/MARKET/SL/SLM; CNC, INTRADAY, MARGIN, MTF, CO, BO; DAY/IOC; slicing; Super Orders. https://dhanhq.co/docs/v2/orders/
- Forever (single/OCO) and conditional triggers: https://dhanhq.co/docs/v2/forever/
- No basket API: https://dhan.co/support/platforms/dhanhq-api/can-i-place-basket-orders-using-dhan-apis/
- Margin calculator single + multi: https://dhanhq.co/docs/v2/funds/
- Postback + order-update websocket: https://dhanhq.co/docs/v2/postback/
- Multi-leg options order: ?

Limits

Order 10/s, 250/min, 1000/hr, 7000/day; Data 5/s, 100000/day; Quote 1/s; Non-trading 20/s; 25 modifications/order. https://dhanhq.co/docs/v2/

Dev experience

- SDKs: Python dhanhq (MIT, 214 stars, 21 open issues), TypeScript DhanHQ-js. https://github.com/dhan-oss/DhanHQ-py
- Sandbox is not paper trading: https://dhan.co/support/platforms/dhanhq-api/can-i-use-dhanhq-sandbox-for-paper-trading-with-virtual-money-and-live-market-data/
- Changelog: v2.5 (09 Feb 2026): https://dhanhq.co/docs/v2/releases/
- Doc quality: ?

Compliance

Static IP, Algo Registration only above 10 orders/s (apihelp@dhan.co), MPP on API market orders. https://dhan.co/support/platforms/dhanhq-api/could-you-provide-me-my-algo-id/ . Redistribution terms: ?

Reliability and community

- 2023 outages (https://tradingqna.com/t/dhan-down-from-morning/149313); third-party tracker normal 2026-11-03 (https://www.entireweb.com/status/dhan). Community size: ?
- Complaints: Oct 2025 auth change breakage, slow support, Data API lag, DH-905 / HTTP 500 on history, margin delay, open GitHub issues (#164, #163, #161, #139). Threads on madefortrade.in.
- Praise/claims (unverified, mostly staff or vendor): ~90% orders <20 ms.

Conflicts

- Orders/sec: 10 (release v2.3) vs 25 live until 2026 (staff posts) vs 10 live 01 Apr 2026.
- Static IP: required since v2.4 (Sep 2025) vs mandatory from 01 Apr 2026.
- Latency claims: 25 ms vs 20 ms vs 98% under 20 ms; all unverified.

Flags

Data API paid; static IP lock; recurring unresolved Data API issues in 2026; latency claims unverified.

Spot-check 2026-11-03

- 11 of 12 fields confirmed against cited pages; 0 contradicted.
- access_cost.api_fee: unsupported by cited page as of 2026-11-03 (page shows Rs 0 trading, Rs 499 data; no monthly period or taxes). Confidence lowered medium -> low.
- Unsupported sub-claims inside confirmed fields (core confirmed, confidence kept): DH-904/805 error codes (limits.rest_rate_limits); 25/s staff statement and Apr 2026 enforcement date (limits.orders_per_second).

5paisa Xstream API (fivepaisa)

As of 2026-11-03. Sources are in fivepaisa.json; confidence in brackets.

Access Cost

- **api_fee**: 0 (free; all trading APIs free of charge) [high] (source)
- **free_tier**: Trading API, Market Data API and running algo systems all Rs 0; no paid API tier listed (tailored plans only for high-frequency traders) [high] (source)
- **required_account**: ? [low] *Note: Implied 5paisa client account/dashboard API keys, but not stated explicitly in notes*
- **data_addons**: None found; Market Data API Rs 0 for integration. Tailored paid plans for HFT (support, pricing, connectivity, infra) [medium] (source)

Auth

- **method**: TOTP login or OAuth (web) yields RequestToken, exchanged with AppKey + encryption key for AccessToken [high] (source)
- **token_expiry**: AccessToken expires daily at 11:59 PM (valid through the day); RequestToken ~60 min (snippet only) [high] (source)
- **totp_automation**: TOTP login supported (API key, client code/email/mobile, TOTP, MPIN) for individual users, so scriptable [medium] (source) *Note: From search snippet, page not fetched in full*
- **static_ip_required**: Required for order placement APIs only (not market feed); announced enforcement 1 Apr 2026, but post also says orders not currently restricted; algo-provider users may be exempt [medium] (source)
- **multi_user**: ? [low] *Note: OAuth stated available for Partners and Individual users; multi-account support not explicitly stated*

Live Data

- **rest_quotes**: Market snapshot and market feed REST APIs offered; details not retrieved [low] (source)
- **depth_levels**: 20-level market depth page exists (nav link only); MarketDepthService returns Details array [low] (source) *Note: Level count content not on fetched page*
- **ws_instrument_limit**: ? [low]
- **ws_connection_limit**: ? [low]
- **tick_by_tick**: ? [low]
- **oi**: Yes; GetScripInfoForFuture returns open interest and day-high OI (futures) [medium] (source)
- **greeks**: ? [low]
- **indices**: ? [low] *Note: A method named 'Indices' exists but is undefined in notes*

Historical

- **intervals**: 1, 5, 10, 15, 30, 60 min and daily [high] (source)
- **intraday_depth**: Max 6 months per request interval; total lookback not stated [low] (source)
- **daily_depth**: No restriction on interval size at day interval; maximum data fetchable [medium] (source)
- **expired_fno**: Not documented; GitHub issue #321 reports expired-futures history returns empty [low] (source)
- **continuous_futures**: ? [low]
- **cost**: Free (Market Data API Rs 0) [medium] (source)

Trading

- **order_types**: Limit, Stop Loss, SL-Market, After Market, IOC; intraday/delivery/MTF flags; BO and CO via py5paisa. Market orders not allowed under SEBI compliance (limit only; MPP suggested) [medium] (source)

- **gtt**: ? [low] *Note: GTT not found in fetched pages; page blocked by Akamai*
- **basket**: Basket create/rename/clone/delete/add in py5paisa; platform basket executes in one click [medium] (source)
- **multi_leg_options**: py5paisa trades multiple legs of pre-defined strategies [medium] (source)
- **margin_calculator**: Margin for single or multi-leg orders in py5paisa; MultiOrderMargin reported always failing (issue #324) [medium] (source)
- **postbacks_webhooks**: No webhooks stated; order updates pushed over websocket (OrderTradeConfirmations) [medium] (source)
- **segments_exchanges**: NSE, BSE, MCX; segments Cash, Derivatives, Currency [high] (source)

Limits

- **rest_rate_limits**: Conflicting: 25 req/s general; 600 order req/min and 50 req/min other APIs (raisable); 1500 orders/min capacity [low] (source)
- **orders_per_second**: 10 OPS non-algo (one app); 25 OPS for algo apps with Algo ID; excess rejected with 429 [high] (source)
- **daily_caps**: Max 10000 orders per day [medium] (source)

Dev Experience

- **official_sdks**: Python (most used), C#, Node.js, Java [high] (source)
- **doc_quality**: ? [low] *Note: Order, margin, GTT, postback sub-pages loaded as titles only and some blocked by Akamai; could not assess*
- **sandbox_paper**: ? [low] *Note: No sandbox page found; sandbox URL blocked/404*
- **changelog_freshness**: ? [low] *Note: Changelog page exists; dated entries not retrieved*
- **github_activity**: py5paisa last push 2026-10-12, 108 stars, 135 open issues, release v0.7.21.5-pre-alpha; several issues open without maintainer reply; no license tagged [high] (source)

Compliance

- **sebi_algo_fit**: Algo ID (exchange-specific) required above 10 OPS, static IP per API key for orders, limit orders only; only selected algo providers empanelled [high] (source)
- **redistribution_commercial_terms**: No API-specific terms found; website terms prohibit commercial use/redistribution of site contents, scraping, framing [low] (source) *Note: Website T&C, may not govern API data*

Reliability Support

- **outages**: Staff claim ~99.9% uptime (no data); undated incident where trading DB CPU peaked and trading nearly stopped, restored by 12:45 pm [low] (source)
- **support_channels**: Developer community (tradebetter), forum KB, email cs@iifl.com, support team for Algo ID [medium] (source)
- **community_size**: py5paisa 108 GitHub stars, 135 open issues; forum size not measured [low] (source)

Community

praise

- User on reliability thread: trusts 5paisa and will move systems over slowly (2025-07-10) (source) **complaints**
- Issue #311: invalid response token on OAuth run (2025-06-04) (source)
- Issue #319: pyjwt pin in requirements causes deployment conflict (2025-08-31) (source)
- Issue #320: query_scrips() raises NameError 'Exch' not defined (2025-10-04) (source)
- Issue #321: expired futures historical data returns empty (2025-11-01) (source)
- Issue #324: MultiOrderMargin always failing, no maintainer reply (2026-06-23) (source)
- Issue #325: Python integration very difficult, no reply (2026-07-30) (source) **comparison_claims**

- 5paisa claims it stayed up during the Cloudflare outage (unlike Zerodha, Groww) because it uses Akamai CDN (2025-12-05) (source)

Other features

- **Flat brokerage**: Rs 20 per executed order (delivery, options); intraday/futures 2.5% or Rs 20 whichever lower; charges page banner also shows Rs 0 for all trades (source)
- **Websocket methods**: MarketFeedV3, MarketDepthService, GetScripInfoForFuture, OrderTradeConfirmations (source)
- **AI assistant**: Xstream API AI assistant announced (source)
- **MTF orders via API**: isMTF flag on place-order (source)

Conflicts

- **limits.orders_per_second**: 25 orders/sec (table, pre-SEBI post, algo apps) (src); 10 orders/sec (feature cards, non-algo post-SEBI) (src). Resolution: 10 for non-algo, 25 for algo apps with Algo ID (current SEBI-era post)
- **limits.rest_rate_limits**: 25 requests/sec, 1500 orders/min (src); 600 order req/min, 50 req/min other APIs (src)
- **auth.static_ip_required**: Enforced from 1 April 2026 (src); Currently not restricting orders based on Static IP (src). Resolution: Unverified; assume required

Flags

- Docs site partly blocked by Akamai; several sub-pages unreadable
- Static IP enforcement status unclear after 2026-04-01
- Rate limits inconsistent across sources
- Brokerage banner (Rs 0) conflicts with Rs 20 flat fee

Spot-check 2026-11-03

0 contradicted, 6 not found on cited page (confidence lowered one step; originals kept): limits.rest_rate_limits, auth.static_ip_required, auth.token_expiry, auth.method, live_data.depth_levels, trading.order_types.

- limits.rest_rate_limits: unsupported by cited page as of 2026-11-03; 600 order req/min and 50 req/min figures are on https://xstream.5paisa.com/, not the cited page
- auth.static_ip_required: unsupported by cited page as of 2026-11-03; "algo-provider users may be exempt" clause not on cited page
- auth.token_expiry: unsupported by cited page as of 2026-11-03; "RequestToken ~60 min" clause not on cited page
- auth.method: unsupported by cited page as of 2026-11-03; AppKey not mentioned on cited integration-flow page (it is on the access-token page)
- live_data.depth_levels: unsupported by cited page as of 2026-11-03; "20-level" not stated; page shows only a "20-MarketDepth" sidebar title
- trading.order_types: unsupported by cited page as of 2026-11-03; "market orders not allowed under SEBI compliance" clause not on cited page

Flattrade (Pi API)

As of 2026-11-03. Unknown fields are shown as ?.

access_cost

- **api_fee**: Free; zero brokerage, no API charges (source, high)
- **free_tier**: API access fully free with a Flattrade trading and demat account (source, high)
- **required_account**: Flattrade Trading & Demat account, a redirect URL and a primary static IP; key created in Pi portal under API(v2) after accepting T&C; key request shows Pending until approved (source, high)
- **data_addons**: None listed; trading and market data APIs advertised as free (source, medium) Note: Absence of add-on fees inferred from marketing page; no explicit statement of no add-ons

auth

- **method**: OAuth-style: browser login (UCC, password, PAN/DOB) at auth.flattrade.in?app_key=APIKEY redirects to the registered redirect URL with request_code (valid a few minutes); POST to authapi.flattrade.in/trade/apitoken with SHA-256(api_key + request_code + api_secret) returns the token (source, high)
- **token_expiry**: 24 hours; tokens cleared between 5-6 AM daily, regenerate after 6 AM; token can be stored and reused until then (source, high)
- **totp_automation**: ? (Docs describe a manual browser login step; no TOTP or automated login mentioned in fetched sources)
- **static_ip_required**: Yes: primary static IP mandatory, secondary optional; token is returned and orders placed/modified/cancelled only from the registered IP; IP changeable once per calendar week; IPs unique across clients (source, high)
- **multi_user**: One API key per client for non-registered algos (under 10 orders/sec); a separate key only for registered algos above 10 orders/sec; v1 and v2 session tokens are mutually exclusive (source, high)

live_data

- **rest_quotes**: ? (No REST quote endpoint identified in fetched sources)
- **depth_levels**: 5 levels (depth feed sample shows bid quantities up to bq5) (source, low)
- **ws_instrument_limit**: ? (No cap stated in fetched sources)
- **ws_connection_limit**: ? (Feed and order updates share one WebSocket connection; no connection cap stated)
- **tick_by_tick**: Partial: snapshot (t=tk) on subscribe then deltas of changed fields (t=tf); not documented as tick-by-tick (source, medium)
- **oi**: Yes: oi field in TPSeries (time price series) response (source, medium)
- **greeks**: GetOptionGreek endpoint computes greeks from caller-supplied spot, strike, expiry, interest rate and volatility; no streamed greeks (source, high)
- **indices**: Get Index List endpoint and index subscription via exchange|token (e.g. NSE|26000 Nifty 50, NSE|26009 BankNifty) (source, medium)

historical

- **intervals**: TPSeries intraday intervals 1, 3, 5, 10, 15, 30, 60, 120 minutes; EODChartData for daily (source, high)
- **intraday_depth**: ? (TPSeries parameters documented, no retention period stated)
- **daily_depth**: ? (EODChartData uses from/to epoch values; no retention stated)
- **expired_fno**: ? (Not found in fetched sources)
- **continuous_futures**: ? (Not found in fetched sources)
- **cost**: No separate historical charge stated; APIs advertised as free (source, medium)

trading

- **order_types**: Via API only LMT and SL-LMT are allowed (v2, effective 12 Jan 2026); no market orders; no CO/BO; IOC not allowed for commodities. Product codes C, M, I, F (MTF) exist (source, high) Note: See conflicts: docs still list CO/BO product codes and ExitSNOOrder
- **gtt**: Yes: PlaceGTTOrder, ModifyGTTOrder, CancelGTTOrder, GetPendingGTTOrder, GetEnabledGTTs (validity DAY or GTT); PlaceOCOOrder with modify/cancel also documented (source, high)
- **basket**: GetBasketMargin takes a basketlists array (margin only); README SDK exposes place_basket (source, medium) Note: Native basket order placement endpoint not confirmed; GetBasketMargin is a margin check
- **multi_leg_options**: MultiLegOrderBook endpoint exists for multi-leg (profit/stoploss legs via snoordt); GetOptionChain available; no documented native multi-leg placement (source, low)
- **margin_calculator**: Yes: GetBasketMargin and SpanCalc (NFO, CDS, MCX; returns span_trade) (source, high)
- **postbacks_webhooks**: Yes: Postback URL set at key creation receives order updates for API orders (payload includes checksum); order updates also pushed on WebSocket (source, high)
- **segments_exchanges**: NSE, NFO, BSE, MCX (place order); limits segments CM, FO, FX; span calc covers CDS (source, high)

limits

- **rest_rate_limits**: General API: 40/second and 200/minute (source, high)
- **orders_per_second**: Order API: 10/second and 40/minute; non-registered algos limited to under 10 orders/sec, registered algos get a separate key for more (source, high)
- **daily_caps**: ? (Only per-second and per-minute limits listed; no daily cap stated)

dev_experience

- **official_sdks**: Python (flattrade/pythonAPI, 34 commits, no releases, no license shown); official MCP server repo flattrade/flattrademcp; Postman collection; third-party StockSharp and OpenAlgo connectors (source, high)
- **doc_quality**: Single-page Pi docs v2.0 (last updated 31 Mar 2026) with changelog, error shapes and samples; page is JS-rendered; Python README thin (no rate limits, static IP or expiry) (source, medium)
- **sandbox_paper**: ? (No sandbox or paper trading found; docs suggest separate API keys for PROD/TESTING if redirect URLs differ)
- **changelog_freshness**: Docs v2.0 updated 31 Mar 2026; v2 launched 12 Jan 2026 with breaking URL/WebSocket changes (PiConnectTP to PiConnectAPI, t=c to t=a) (source, high)
- **github_activity**: pythonAPI issues active through Jul 2026 (issue #21 on 4 Jul 2026), many old issues open with no maintainer reply seen; no releases (source, medium)

compliance

- **sebi_algo_fit**: Aligned with SEBI retail algo standards: mandatory static IP, API v2 limited order types, 10 orders/sec threshold with registered-algo keys (strategy upload, approval), Algo Id and Order Source fields in order updates (source, high)
- **redistribution_commercial_terms**: ? (T&C is referenced at key creation but its API terms are not in fetched pages; general terms say service provided as is)

reliability_support

- **outages**: TPSeries endpoint failed 22 Jun 2026, working again 23 Jun 2026; WebSocket 502 handshake error 3 Sep 2025, reported gone 14 Jan 2026; no official status page found (source, medium)
- **support_channels**: 24/7 technical support advertised (phone listed); Telegram channel; support portal (source, medium)
- **community_size**: ? (No member or client counts found)

community

praise

- none found

complaints

- TPSeries endpoint stopped working 22 Jun 2026 ('unknown request') while other endpoints worked; second user confirmed; fixed next day (source, high)
- WebSocket handshake failed with 502 Bad Gateway on 3 Sep 2025; second user confirmed; resolved by Jan 2026 (source, high)
- Price-series methods (get_daily_price_series / get_time_price_series) reported not working, recurring across 2023-2024 issues, still open (source, medium)
- BFO options not discovered by the API (7 May 2026, open) (source, medium)
- place_basket drops all but the last future result (4 Jul 2026, open) (source, medium)
- set_session reports session key expiry (26 Dec 2025, open) (source, low)
- Feature requests unanswered: Amibroker DLL, .NET API, Move Funds API (source, low)

comparison_claims

- none found

other_features

- **Price alerts API**: Set, cancel, modify, pending and enabled alert types (source, medium)
- **Funds: Get Max Payout Amount**: Documented in funds section (source, medium)
- **Top list and index list**: Get Top List and Get Index List market-info endpoints (source, medium)
- **MTF product code**: Product code F (MTF) in place order (source, medium)
- **MCP server**: Official repo github.com/flattrade/flattrademcp linked in docs (source, medium)
- **Advertised execution speed and uptime**: <10ms and 99.9% (marketing claims, not an SLA) (source, low)
- **Scrip master files**: Downloadable per segment incl. NSE Index Derivatives and MCX Commodity (source, medium)
- **Account maintenance**: Lifetime free AMC (source, medium)

flags

- Pi docs page body was JS-rendered in some fetches; most details depend on a later successful fetch of pi.flattrade.in/docs
- v2 order restrictions (limit/SL-LMT only, no CO/BO) conflict with older docs listing CO/BO
- Recurring open issues about price-series endpoints and ad hoc endpoint outages
- Possibly multi-leg and basket placement unconfirmed (only margin/book endpoints seen)

conflicts

- **trading.order_types**: Only limit or SL-Limit orders allowed; Cover and Bracket orders not allowed (source) vs Docs list product codes H (CO) and B (BO), and ExitSNOOrder for CO/BO (source) Resolution: Announcement states v2 rules effective 12 Jan 2026; docs likely retain legacy fields. Treat CO/BO as not available via API.
- **other_features.MCP server**: MCP coming soon (source) vs Official MCP server repo linked (source) Resolution: Docs (updated 31 Mar 2026) list the repo; marketing page may be stale.
- **dev_experience.doc_quality**: pi.flattrade.in/docs fetch returned title only (JS-rendered) (source) vs Full docs content captured in later fetch (rate limits, endpoints, changelog) (source) Resolution: Used the later full-content capture.

FYERS API profile (as of 2026-11-03)

access_cost

- **api_fee**: Free on Standard plan (no subscription fee for trading API, historical, quotes, market data per FYERS support). Prime is a paid subscription for higher limits; Prime API price not stated in docs. source (medium)
- **free_tier**: Standard plan: data API 5 req/s, 50/min, 5,000/day; quotes 50 symbols/request; Data Socket 100 symbols; TBT 1 symbol; daily history 5 years, intraday 1 year, no seconds data, expired F&O intraday 10 req/day. source (high)
- **required_account**: FYERS trading account plus an API app created in the FYERS API dashboard. source (high)
- **data_addons**: TrueData Level 1 tick streaming Rs 1,599 + GST/month for FYERS clients (unverified attribution). API Bridge (Rs 500+GST/month, Rs 3,600+GST/year) discontinued 5 Mar 2026; order placement via Bridge ended 1 Apr 2026. source (low)

auth

- **method**: Auth code flow: Generate Auth Code (GET), Validate Auth Code (POST) returns access token; send app_id:access_token header. Own-app and partner-app types. source (high)
- **token_expiry**: Access token expires daily at 6:30 AM; errors -8, -15, -16, -17 on expiry/invalid. source (high)
- **totp_automation**: FYERS staff point to a TOTP auto-login flow for daily token generation; not described on fetched official auth pages. source (medium)
- **static_ip_required**: Required for the trading (order placement) app; non-trading data-only apps do not need it. IP changeable at most once per calendar week. source (low)
- **multi_user**: Individual app: only the creator can log in. Partner app type exists for third-party apps. One trading app plus any number of data-only apps per user. source (high)

live_data

- **rest_quotes**: Quotes GET up to 50 symbols/request (Standard), 1,000 (Prime, POST added 16 Oct 2026). Market depth REST is one symbol per request. source (high)
- **depth_levels**: 5 levels on Data Socket; 50 levels on TBT socket (NSE equity and NFO only). source (high)
- **ws_instrument_limit**: Data Socket: Standard 100, Prime 5,000 symbols. TBT: Standard 1, Prime 15. source (medium)
- **ws_connection_limit**: Data/General WebSocket: one instance at a time. TBT: Prime up to 3 connections x 5 symbols, 50 channels per connection. source (high)
- **tick_by_tick**: Yes: TBT socket, 50-depth, Protobuf responses, snapshot then deltas, NSE equity and NFO only. source (high)
- **oi**: Yes: market depth oi/pdoi/oipercent, option chain per-strike OI, historical oi_flag=1. source (high)
- **greeks**: Option chain greeks=1 returns delta, gamma, theta, vega, iv; expired F&O supports include_greeks. source (high)
- **indices**: ? source (low)

historical

- **intervals**: Seconds 5S/10S/15S/30S/45S; minutes 1 to 240; 1D, 1W, 1M. Minute data from 3 Jul 2017. source (high)
- **intraday_depth**: Standard 1 year (from 2025); Prime 5+ years. Seconds data: Standard none, Prime 30 days. source (high)
- **daily_depth**: Standard 5 years (from 2021); Prime 25+ years. source (high)
- **expired_fno**: Yes, documented; limited on Standard (daily 2 years, intraday 10 API req/day per plans page), Prime (paid) daily 7+ years; graded ⚠️ (limited/paid for full depth). Three-step expiry/contract/candles flow. The

6 Sep 2026 add date is not on the cited page (unverified). source (medium)
- **continuous_futures**: Yes, cont_flag=1 for continuous futures and options data. source (high)
- **cost**: Included with API; depth and request caps depend on Standard vs Prime. Support article says historical data is free. source (medium)

trading

- **order_types**: Sync and async single orders, slice orders (NSE CM/NFO/BFO, max 10 slices), GTT, smart orders; limit type 1 confirmed; CO and BO deprecated 2 Aug 2026. Full order-type list not in notes. source (low)
- **gtt**: Yes: single GTT (leg1) and OCO (leg2); CNC, MARGIN, MTF; active up to one year. source (high)
- **basket**: Yes: multi-order array of up to 10 orders. source (high)
- **multi_leg_options**: Yes: 2L or 3L, NFO only, same underlying, limit IOC legs; no hedge margin benefit. source (high)
- **margin_calculator**: Yes: multi-order margin (max 50 orders) and SPAN margin (max 20 symbols). source (high)
- **postbacks_webhooks**: Yes: JSON POST to registered URL on order status change; must reply HTTP 200 or URL blacklisted 30 min; app activated by login. source (high)
- **segments_exchanges**: NSE CM, NFO, BFO confirmed in order docs; MCX order placement referenced in an outage report. source (medium)

limits

- **rest_rate_limits**: Data: Standard 5/s, 50/min, 5,000/day; Prime 10/s, 500/min, 500,000/day. Transactions/user-info: Standard 10/s, 200/min, 100,000/day; Prime 10/s, 500/min, 500,000/day. Error -429. source (high)
- **orders_per_second**: Place, modify, cancel together max 10 orders/second. source (high)
- **daily_caps**: See rest_rate_limits; user blocked for the rest of the day if per-minute limit exceeded more than 3 times in a day. source (high)

dev_experience

- **official_sdks**: Python (fyers-apiv3 v3.2.1, 30 Oct 2026), Java, Go, C on GitHub FyersDev; Postman collection and sample code. source (high)
- **doc_quality**: New docs site (16 Oct 2026) with per-endpoint pages, Postman, samples; a user calls docs decent. Open sample-code issues on undocumented socket teardown. source (medium)
- **sandbox_paper**: None found in API docs; community asks for a paper-trading environment. source (medium)
- **changelog_freshness**: Active: entries up to 30 Oct 2026 (Screeners APIs, SDK v3.2.1). source (high)
- **github_activity**: Java/Go/C SDKs updated 30 Oct 2026; fyers-skills Jul 2026 (34 stars); fyers-api-sample-code 106 stars. source (high)

compliance

- **sebi_algo_fit**: Orders only from registered App ID tied to whitelisted static IP; below 10 OPS no algo registration per FYERS post. Effective date of rules unconfirmed. source (medium)
- **redistribution_commercial_terms**: Redistribution/caching/sub-licensing needs written FYERS approval; no charting/tool development from exchange data; commercial platforms need exchange and statutory approvals; credentials not shareable. source (high)

reliability_support

- **outages**: Third-party tracker (snippet only): 9 outages since 21 Jul 2025 totaling 16h 1m; MCX order disruption 4h 16m on 9 Mar 2026. source (low)
- **support_channels**: Community forum with staff/product-manager replies, support portal knowledge base, GitHub issues. source (medium)
- **community_size**: ? source (low)

community

praise

- API is free, docs are decent, latency 30-35ms. source **complaints**
- Websocket stability: drops connection more often than desired. source
- Standard limits cut to 5/s, 50/min, 5,000/day; users call it too strict and see no value in Prime. source
- history() call hangs indefinitely; staff could not reproduce (Aug 2025). source
- v3 websocket data issues, attributed by staff to third-party NSE index symbol names (May 2025). source
- API Bridge order placement ended 1 Apr 2026; users must create a new app with static IP. source
- FYERS Automate placed orders without trigger; target/SL not applied (2026). source
- TBT Depth._addDepth() ignores num field in sample code, corrupting 50-level depth. source **comparison_claims**
- Not a quantum leap from Kite but improvement in a few areas; websocket stability main downside vs Kite. source

other_features

- **Screeners APIs**: Published under /api/v3/screeners (30 Oct 2026) source
- **Closing Auction Session (CAS) data**: Quotes include CAS fields; Market Status Definitions table added source
- **Position SL/TP management**: Modify and cancel (PATCH null) stop loss and take profit on open positions source
- **Option chain and futures chain endpoints**: Option chain up to 50 strikes per side with India VIX and expiries; futures chain per underlying source
- **FYERS Automate**: No-code automation product; user-reported reliability issues source
- **Brokerage**: Futures Rs 20 or 0.03% per executed order (lower), options flat Rs 20; Prime brokerage plan Rs 15 per executed order source

flags

- Standard/Prime limits were revised recently (community: prior Standard was 10/s, 200/min, 100k/day); older sources stale
- TrueData price and attribution unverified
- Pingoru outage data from search snippets only
- SEBI algo rule effective date unconfirmed
- Prime API subscription price not in official docs
- auth.static_ip_required: unsupported by cited page as of 2026-11-03 (no data-only exemption or weekly change limit stated)
- historical.expired_fno: unsupported by cited page as of 2026-11-03 (no add date, depth or request caps)

conflicts

- **limits.rest_rate_limits**: Standard data 5/s, 50/min, 5,000/day (src) vs 10/s, 200/min, 10K/day (later 100K/day) (src) Resolution: Official plans page is current; community figures predate the revision.
- **access_cost.api_fee**: Trading API, historical, quotes free (src) vs Higher limits and deeper history need paid Prime (src) Resolution: Free only on Standard limits; Prime price unconfirmed (user cites Rs 499).
- **live_data.ws_instrument_limit**: 100 (Standard) / 5,000 (Prime) (src) vs Staff cited 50; user saw >100 subscriptions accepted (src) Resolution: Docs say 100; enforcement reportedly lax.

- **access_cost.data_addons**: API Bridge sold at Rs 500+GST/month (src) vs API Bridge subscriptions discontinued 5 Mar 2026 (src) Resolution: Treat as discontinued.

Spot-check 2026-11-03

- 10 fields confirmed, 0 contradicted, 2 unsupported by cited page.
- auth.static_ip_required: medium -> low (data-only exemption and weekly IP change limit not on cited page).
- historical.expired_fno: high -> medium (add date, depth and request caps not on cited page).

Groww Trading API

As of 2026-11-03. Sources: groww.in/trade-api (docs: curl, python-sdk), groww.in/blog/api-trading-on-groww, groww.in/blog/static-ip-api-trading-setup, community pages listed in groww.json.

Cost

- Rs 499/month + 18% tax (billed Rs 6,000/yr); Yearly Rs 4,999. Auto-renews. (blog)
- Free Trial Rs 0: orders, positions, holdings, margin; no live data, no historical.
- Needs Groww account + active API subscription. Live data bundled, no separate add-on.

Auth

- Three flows: web-UI access token (expires daily 6:00 AM), API key+secret (daily approval), TOTP (no expiry, pyotp). (curl docs)
- Static IP required for orders (primary + optional secondary). (blog)
- Token endpoint: 150 req/24h.

Data

- Quotes/LTP/OHLC (50 per call), option chain, Greeks, OI, indices; depth 5 levels (inferred). (live data)
- Feed: 1000 instruments at a time; LTP, index, depth, order and position updates. (feed)
- Historical: 1m to 1 month candles from 2020, expiries/contracts APIs; legacy endpoint deprecated (3 months). (backtesting)

Trading

- CASH and FNO only (NSE/BSE); no MCX. MARKET, LIMIT, SL, SL-M. GTT and OCO. Margin calculator (basket FNO). (orders, smart orders)
- Limits: Orders 10/s 250/min; Live 10/s 300/min; Non-trading 20/s 500/min; Auth 5/s 30/min.

Dev experience

- Python SDK (growwapi) and cURL docs. Changelog last entry 2 Dec 2025. No sandbox found.

Compliance and reliability

- Static IP whitelisting fits SEBI retail algo rules. No API outages found; consumer app outage Jan 2024 and Rs 34.12 lakh SEBI settlement. (Business Today)

Conflicts

- Price: Rs 499 vs Rs 2000 (earlier price).
- Historical depth: 3 months (landing) vs from 2020 (backtesting).
- Order list page_size max: 100 vs 25.
- Changelog "leverage information" absent from margin docs.

Unknown (?)

multi_user, ws_connection_limit, tick_by_tick, continuous_futures, basket, multi_leg_options, postbacks_webhooks, sandbox_paper, github_activity, redistribution_commercial_terms, support_channels, community_size (12 of 43).

Community (low confidence)

Praise is old or promotional; complaints about coding barrier, daily token approval, Groww MCP holdings failing. See groww.json.

Spot-check 2026-11-03

- auth.token_expiry: cited curl page contradicts TOTP "No Expiry" (it says "Requires daily approval"); python-sdk page (https://groww.in/trade-api/docs/python-sdk) supports "No Expiry". Official pages conflict; claim kept, confidence low, conflict recorded.
- live_data.depth_levels: not found on cited page (count not stated, only sample keys 1-5). Confidence lowered to low, flagged unsupported.
- Other 10 checked fields confirmed (static_ip_required and historical depth rows only partly).

HDFC Securities InvestRight API (hdfcir)

As of 2026-11-03. Fields marked ? were not found in sources.

access_cost

- **api_fee**: Free (broker blog claim; 'API features, availability, and charges may change'; no fee schedule published) (source, medium)
- **free_tier**: API access is free; existing InvestRight customers already have access (source, medium)
- **required_account**: Valid HDFC Securities InvestRight trading account (Client ID / registered email / mobile); developer portal registration at developer.hdfcsec.com (source, high)
- **data_addons**: ?. Note: No add-on or data fee stated in any fetched source (blog, forum, OpenAlgo); staff confirmed LTP data is available via API with no pricing mentioned (forum, 'Do you have market data API')

auth

- **method**: Redirect-based login: user authorizes the app to obtain request_token; exchange api_key + request_token + api_secret for access token. API Key/Secret copied from app list. Developer portal login uses InvestRight credentials plus OTP (source, medium)
- **token_expiry**: Access token valid for 8 hours (HDFC staff forum reply, 14 Oct 2026); earlier third-party guess was a ~3 AM IST daily rollover (source, medium). Note: Staff forum reply, not formal docs. Replaces earlier low-confidence 3 AM rollover guess from OpenAlgo code comment (kept in conflicts)
- **totp_automation**: No TOTP option documented; programmatic login via the 2FA endpoint needs an OTP code sent to the registered mobile/email (source, medium). Note: Official page text via community mirror (marketcalls/broker-api-docs PR #2); developer.hdfcsec.com returned 403 to agent-browser; refetch3: staff forum reply 9 Sep 2026 says 'TOTP based login is not supported for Tradeapis, OTP based login is available' and TOTP/MPIN login 'will come soon' (no date) (https://forum.hdfcsec.com/t/does-the-individual-api-support-totp-based-2fa-instead-of-email-sms-otp/33)
- **static_ip_required**: True (source, medium). Note: Mandatory per SEBI circular; primary static IP required, secondary optional; each API key needs a dedicated static IP; per-API-key dedicated IP claim NOT supported by cited source (openalgo page does not say this); refetch3: staff forum reply 9 Jun 2026 'For trading API Static IP is compulsory' (https://forum.hdfcsec.com/t/is-static-ip-is-compulsory-to-get-api-key/15); cloud static IP accepted per staff 6 Oct 2026 (https://forum.hdfcsec.com/t/can-i-use-a-cloud-vps-static-ip-for-hdfc-investright-api/57); wrong IP correctable only after 7 days, by email (user report). Per-API-key claim still not supported; confidence kept at medium
- **multi_user**: One access token per account; no client_id parameter on any endpoint (account implied by token). Multi-account login not documented (source, low). Note: Third-party code comment (OpenAlgo); not HDFC docs; refetch3: staff say the same access token places orders and reads positions/holdings, no read-only key

live_data

- **rest_quotes**: REST LTP snapshots; OpenAlgo plugin also covers quotes and depth (source, medium)
- **depth_levels**: Up to five levels of bid/offer market depth (WebSocket) (source, medium). Note: Official page text via community mirror (PR #2 17-websocket.md)
- **ws_instrument_limit**: Up to 1500 instruments per WebSocket connection (source, medium). Note: Not found on cited page (portal 403); refetch3: no forum/staff statement either. Note staff said on 9 Jun 2026 'Websocket for market data will be released soon' (https://forum.hdfcsec.com/t/do-you-have-market-data-api/16), so WebSocket availability itself is unconfirmed
- **ws_connection_limit**: Up to 3 simultaneous WebSocket connections per API key (source, low). Note: Same page also says 'without any limit'; see conflicts; refetch3: no forum/staff statement found
- **tick_by_tick**: ?. Note: refetch3: no official tick-by-tick or tick history statement found

- **oi**: Open interest available over WebSocket (quote field oi; topics NSE_FO_OI, BSE_FO_OI, NSE_CD_OI); REST LTP returns only ltp and prev_close (source, medium). Note: Official page text via community mirror (PR #2)
- **greeks**: Greeks over WebSocket: delta, gamma, vega, theta, rho (topics NSE_FO_GREEK, BSE_FO_GREEK; subscription type GREEK) (source, medium). Note: Official page text via community mirror (PR #2)
- **indices**: Index feeds NSE_INDEX and BSE_INDEX (source, medium)

historical

- **intervals**: None: InvestRight publishes no candle API (per OpenAlgo; get_history raises) (source, medium). Note: refetch3: HDFC staff (forum) say 'the Chart Data API is currently under development and will be made available to customers soon', no date (https://forum.hdfcsec.com/t/is-a-chart-data-api-already-available/27); a user on 10 Oct 2026 still reports no historical API (https://forum.hdfcsec.com/t/how-will-i-get-the-historical-data-to-backtest-my-strategy/65). Consistent with no candle API today
- **intraday_depth**: ?. Note: refetch3: not found in any source; no historical product exists today per staff and OpenAlgo
- **daily_depth**: ?. Note: refetch3: not found in any source; no historical product exists today per staff and OpenAlgo
- **expired_fno**: ?. Note: refetch3: not found in any source; no historical product exists today per staff and OpenAlgo
- **continuous_futures**: ?. Note: refetch3: not found in any source; no historical product exists today per staff and OpenAlgo
- **cost**: ?. Note: refetch3: not found in any source; no historical product exists today per staff and OpenAlgo

trading

- **order_types**: MARKET, LIMIT, SL-L, SL-M (source, low). Note: Not found on cited page (portal 403); refetch3: unverified search summary also mentions validity DAY, IOC, GTD (not verbatim)
- **gtt**: ?. Note: refetch3: no official GTT statement; OpenAlgo InvestRight module exposes only /oapi/v1/orders/regular
- **basket**: ?. Note: refetch3: no official basket API statement; OpenAlgo has no basket endpoint
- **multi_leg_options**: ?. Note: refetch3: no multi-leg endpoint in OpenAlgo InvestRight module
- **margin_calculator**: ?. Note: refetch3: no margin calculator found; funds endpoint (/oapi/v1/user/margins) returns available, utilised and pledge limits only
- **postbacks_webhooks**: Postback URL field exists on app form but is optional (dummy URL acceptable); payload details not documented (source, medium)
- **segments_exchanges**: NSE, BSE, NFO, BFO, CDS, MCX (source, medium)

limits

- **rest_rate_limits**: ?. Note: No official numbers in docs or staff replies (refetch3). A third-party page (chittorgarh, last updated Nov 2023, mixes HDFC Sky) says 'typically 5-10 requests per second', unsourced and not used. OpenAlgo caps LTP batches at 10 and says InvestRight does not document the cap
- **orders_per_second**: ?. Note: No HDFC figure; NSE retail threshold of 10 orders/sec without algo registration is a third-party summary; refetch3: still no HDFC figure
- **daily_caps**: ?. Note: refetch3: no daily cap found in any source

dev_experience

- **official_sdks**: ?. Note: No official HDFC SDK or GitHub repo found in search (refetch3 repeat); developer portal pages return 403
- **doc_quality**: Developer portal (JS-rendered) yielded little text when fetched; community markdown conversion of the docs exists in marketcalls/broker-api-docs PR #2 (source, low)

- **sandbox_paper**: No sandbox/UAT host documented (intro marketing copy mentions a sandbox environment but gives no host) (source, medium). Note: Official page text via community mirror (PR #2 README/01-introduction)
- **changelog_freshness**: No changelog found; HDFC staff are answering API forum threads from Jun to Oct 2026 (latest staff reply 14 Oct 2026), so the API is actively supported (source, low). Note: Inferred from forum activity, not a published changelog; stays low confidence
- **github_activity**: No official HDFC repo found; third-party: OpenAlgo added InvestRight in release 2.0.2.0 (14 Aug 2026); community docs-mirror PR #2 is CLOSED (source, medium). Note: Third-party activity only

compliance

- **sebi_algo_fit**: Static IP mandatory; broker API algos must be registered and tagged; order rate limits must be respected (source, medium)
- **redistribution_commercial_terms**: ?. Note: Not stated; only 'API features, availability, and charges may change'; refetch3: still no terms found

reliability_support

- **outages**: ?. Note: No status page or outage notice found (checked forum.hdfcsec.com in refetch3)
- **support_channels**: HDFC InvestRight Community forum (staff reply to API threads); static-IP fixes by email to smg_investright_support@hdfcsec.com; general customer care and dealing desk 022-6246 5555 (source, medium). Note: Forum staff email from a user report; phone from blog footer (page dated 25 Jul 2024). Replaces earlier low-confidence general-support entry (brokerage-charges page)
- **community_size**: Official InvestRight Community forum exists at forum.hdfcsec.com with roughly 22 API threads (Jun to Oct 2026); no member counts found (source, low). Note: Thread count is approximate from a forum listing; corrects earlier note that no InvestRight forum was found

community

- **praise**: none found
- **complaints**:
  - InvestRight publishes no candle API, so historical data is unavailable (OpenAlgo get_history raises) (source)
  - As of 9 Jun 2026 HDFC staff said market data WebSocket 'will be released soon' and as of 2026 the Chart Data API is 'under development'; a user on 10 Oct 2026 reports still no historical data API for backtesting (source)
- **comparison_claims**:
  - OpenAlgo treats the InvestRight plugin as independent of the HDFC Sky plugin, targeting developer.hdfcsec.com (source)

other_features

- **Streaming protocol**: Protobuf WebSocket feed; schema file GenericDTO3.proto (source, medium)
- **App limits**: Up to 10 apps per account; new apps are deactivated by default and must be activated (source, medium)
- **Trading API option**: Order placement and reading order book/positions/holdings require the Trading API option on the app (source, medium)
- **Derivatives risk disclosure**: Must be accepted during app creation (source, medium)
- **REST scope**: Orders, positions, holdings, funds, LTP snapshots (source, medium)
- **Third-party integration**: OpenAlgo added InvestRight as a broker (release 14 Aug 2026): auth, funds, master contract, orders, quotes, depth, WebSocket, option tools (source, medium)
- **Per-app redirect URL**: Set per app; the OpenAlgo example value is OpenAlgo-specific (source, medium)

- **NFO algo order rejection workaround**: Staff advised setting product type to DELIVERY when an NFO algo order was rejected ('algo order disabled for this exchange'), 1 Oct 2026 (source, low)
- **Redirect URL scheme**: HDFC rejected an http://127.0.0.1 callback in one report; staff suggested a local HTTPS workaround (1 Sep 2026) (source, low)

flags

- No historical candle API
- No numeric REST rate limits or daily caps published
- Developer portal docs thin when fetched (JS-rendered); most detail comes from OpenAlgo and community sources
- Blog registration link points to developer.hdfcsky.com while text says developer.hdfcsec.com; verify domain
- Static IP: cited OpenAlgo page confirms mandatory static IP per SEBI circular but does not state one static IP per API key; confidence lowered to medium on re-check
- developer.hdfcsec.com returned 403 to agent-browser on 2026-11-03; several fields filled from the community mirror of the official docs (marketcalls/broker-api-docs PR #2) or third-party OpenAlgo code
- live_data.ws_instrument_limit: unsupported by cited page as of 2026-11-03
- live_data.ws_connection_limit: unsupported by cited page as of 2026-11-03
- trading.order_types: unsupported by cited page as of 2026-11-03
- refetch3 (2026-11-03): HDFC staff forum says market data WebSocket 'will be released soon' (9 Jun 2026) and Chart Data API is 'under development'; WebSocket and historical availability may change
- refetch3: auth.token_expiry replaced with staff statement (8 hours, medium); old ~3 AM rollover guess kept in conflicts
- refetch3: forum.hdfcsec.com found; community_size and support_channels updated; remaining ? fields still not found in any source

conflicts

- **live_data.ws_connection_limit**: up to three simultaneous connections (source); 'without any limit' (source). Used 3 per API key; page wording is self-contradictory
- **auth.method**: 4-digit OTP for developer portal login (source); 6-digit OTP for developer portal login (source). Unresolved; OTP length differs between sources
- **auth.method**: token exchange field named api_secret (spec) (source); curl sample sends apiSecret (source). Unresolved; community spec and sample disagree
- **auth.token_expiry**: token valid for 8 hours (HDFC staff) (source); ~3 AM IST daily token rollover (OpenAlgo code comment) (source). Used staff statement (8 hours); the two may both hold if the token also resets daily

Spot-check 2026-11-03

9 confirmed, 0 contradicted, 3 not found on cited page (developer.hdfcsec.com/ir-docs blocks fetch; 403).

- live_data.ws_instrument_limit: unsupported by cited page as of 2026-11-03; confidence high -> medium
- live_data.ws_connection_limit: unsupported by cited page as of 2026-11-03; confidence medium -> low
- trading.order_types: unsupported by cited page as of 2026-11-03; confidence medium -> low

Refetch 2026-11-03 (round 3)

Sources: forum.hdfcsec.com threads, OpenAlgo InvestRight module, blog. Updated: auth.token_expiry (low -> medium, staff 8 hours), reliability_support.community_size and support_channels, dev_experience.changelog_freshness (low), notes on all remaining ? fields. No sourced claim deleted; spot-check downgrades kept.

HDFC SKY Open API (hdfcsky)

As of 2026-11-03. Source notes: (internal working notes, not published),pricing,community,refetch,refetch3}.md. "?" = unknown. Full sourced data: hdfcsky.json.

Cost and access

- API fee: free per vendor (blog); not independently confirmed. Free tier: ?. Data add-ons: none found.
- Needs HDFC SKY account; create app under My Apps on the Developer Portal; app is deactivated by default until activated (guide, OpenAlgo).

Auth

- API key redirect login with OTP 2FA -> request token -> server-side exchange for access token (flow).
- Token valid for the session; exact duration not stated (article). TOTP automation: not documented. Multi-user: ?
- Static IP: required per OpenAlgo/SEBI circular; blog says "where applicable".

Live data

- WebSocket: 300 instruments/connection, 3 connections/key (limits); blog marks WebSocket "Coming Soon".
- REST quotes: Market Data API "Coming Soon" in blog, advertised on algo page. Indices: NSE_INDEX, BSE_INDEX (OpenAlgo).
- Depth: WebSocket market depth exists, levels not stated (OpenAlgo). OI: sourced over WebSocket in OpenAlgo integration, vendor field unconfirmed. Greeks: WebSocket protobuf defines option GreekData (delta, gamma, vega, theta, rho); vendor REST greeks undocumented (low). Tick-by-tick: ?

Historical

- Intervals: native MINUTE and DAY only (fetchCandles); OpenAlgo resamples to 1m-1h, D, W, M. Per-request caps (OpenAlgo-measured): 31 days intraday, 2000 days daily; total look-back not stated. Expired F&O, continuous futures, cost: ?

Trading

- MARKET, LIMIT, SL, SL-M (orders); GTT "Coming Soon" in blog but vendor docs have a Create GTT Order page (conflict, low). Exchanges: NSE, BSE, NFO, BFO, CDS, MCX.
- Postbacks: optional postback URL for order notifications set at app creation (OpenAlgo). Basket orders documented (hedge basket only NIFTY 50/BANK NIFTY). Margin calculator documented (array of legs, netted + per-leg result). Multi-leg: ? (no strategy endpoint in sitemap).

Limits

- Numeric REST, per-second and daily limits: ? (not published).

Dev experience

- Official SDKs: none (vendor says plain HTTP). Sandbox advertised (algo page). Docs: guides advertised, portal unreadable. Changelog: none found. GitHub: only OpenAlgo integration (discussion).

Compliance

- SEBI-registered broker; static IP mandated. Redistribution/commercial terms: ?

Reliability and support

- Outages: none found. Support: skysupport@hdfcsky.com, 1800 121 2109 (process). Community: 0 replies, 1 participant.

Community voice

- No user praise or complaints found. Comparison: InvestorGain leaves API fields blank; lists Kite Connect at Rs 500/month (compare).

Conflicts

- Static IP: "where applicable" (blog) vs mandatory (OpenAlgo); treated as required.
- REST quotes: "Coming Soon" (blog) vs advertised (algo page); unresolved.
- GTT: "Coming Soon" (blog) vs Create GTT Order page in developer docs; unresolved.

Other features

OpenAlgo integration (v2.0.1.16); MARKET/SL-M converted to protected LIMIT/SL in OpenAlgo; Trading/Market Data/Portfolio/WebSocket API families advertised; order status polling; app activation required.

Spot-check 2026-11-03

- 11 of 12 checked fields confirmed; 0 contradicted.
- access_cost.required_account: confidence lowered medium -> low. Unsupported by cited page as of 2026-11-03: the deactivated-by-default clause is not on the key/token guide (it only says "Check that the application status shows Active."); it appears on the OpenAlgo page.

Zerodha Kite Connect (kite)

As of 2026-11-03. Source notes: (internal working notes, not published),pricing,community}.md. "?" = unknown. Full sourced data: kite.json.

Cost and access

- Connect plan: Rs 500/app/month; includes live WebSocket and historical data, no separate add-on (charges, FAQ).
- Free Personal plan: orders, GTT, alerts, margins, portfolio; no historical or real-time data.
- Needs Zerodha client ID with 2FA TOTP. From Oct 2026, Rs 2000+ brokerage gives 500 Developer Credits for renewal. Startups on mass retail products: free (email).

Auth

- Login flow with request_token to access_token (SHA-256 checksum); token expires 6 AM next day (user docs).
- Manual login at least daily per Zerodha; TOTP automation unofficial only (forum).
- Static IP required for order placement (up to 2 IPs, 1 change/week; other endpoints any IP) (static IP). Multi-user: ?

Live data (websocket, quotes)

- WebSocket: 3000 instruments/connection, 3 connections/key; ltp/quote/full modes; 5-level depth; OI in quote packet; indices supported.
- REST: /quote 500 instruments with depth; /ohlc and /ltp 1000. Tick-by-tick: ?; Greeks: ?

Historical (docs)

- Intervals minute to 60minute plus day; OI via oi=1; continuous futures for NFO/MCX; expired contract tokens not retrievable unless cached. Daily depth "several years" (low confidence). Intraday depth: ?

Trading (orders, GTT, margins, postbacks)

- MARKET/LIMIT/SL/SL-M; CNC/NRML/MIS/MTF; iceberg, cover; GTT single and OCO; margin and charges calculators incl. basket; postbacks plus WebSocket order updates. Multi-leg options: ?

Limits (exceptions)

- Quote 1/s, historical 3/s, orders 10/s, others 10/s; 400 orders/min; 5000 orders/day; 25 modifications/order; 500 active alerts.

Dev experience

- Official SDKs: Python, Go, Java, PHP, Node.js, .NET (sdks). Sandbox at sandbox.kite.trade. Changelog latest seen 2025-06-12; pykiteconnect v5.2.2 (15 Sep, year unknown). Doc quality: ?

Compliance (terms, FAQ)

- Own-use algos within 10 OPS need no exchange registration; above needs registration and Algo ID. India-only license; no redistribution of live data, no sublicensing; may build platforms for other Zerodha clients with exchange approval.

Reliability and support

- Outages: Sep 2025, 6 Oct 2025, 5 Dec 2025 (Cloudflare), 3 Feb 2026 (report).
- No phone/ticket API support; forum only (thread). Community size: ?

Community voice (low confidence, anecdotal; Reddit mirror)

- Praise: fine for learning and building.
- Complaints: throttling, latency spikes in volatility, support delays, stuck "Cancelled" app after payment.
- Comparisons: moved to Nubra (flatter latency), Fyers (free, 30-35ms), DhanHQ; SmartAPI praised as free.

Conflicts

- Static IP effective date: 1 Apr 2026 (static-ip page) vs 1 Apr 2025 (FAQ).
- Order rate: official 10/s vs Reddit 3/s.
- Free tier: older forum answer says Personal free with after-hours testing; official page consistent on no data.

Other features

Alerts API (simple and ATO, 2025-06-12), market protection parameter on MARKET and SL-M orders only (orders), Kite WhatsApp backup, daily instrument dump, no CORS (server-side only).

Spot-check 2026-11-03

- 9 of 12 fields confirmed; 0 contradicted; 3 unsupported by cited page as of 2026-11-03.
- auth.static_ip_required: IPv6 claim unsupported by cited page (confidence stays low).
- limits.orders_per_second: 400 orders/min unsupported by FAQ page; confidence medium -> low.
- limits.daily_caps: 500 active alerts unsupported by exceptions page; confidence high -> medium.

Update 2026-11-03 (basket, brokerage, exit-all, CORS)

- Basket: no REST endpoint; browser-only offsite POST to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries) (basket, publisher). Grade basket: no -> partial.
- Exit-all: no dedicated endpoint; exit by opposite order (portfolio); kill switch NOT FOUND on pages checked. Grade ? -> no.
- Connect yearly price and API-specific brokerage: NOT FOUND (only Rs 500/month; general rates).
- CORS: docs root re-confirms not cross site request enabled; allowed origins NOT FOUND.

Kotak Neo Trade API (Kotak Securities)

As of 2026-11-03. Source of truth: profiles/kotak.json. ? = not found in reviewed notes.

Access Cost

- **api_fee**: Free at present: no subscription charge for the API; Rs 0 brokerage per order on Trade Free plans via API (only statutory charges) (source, high) *Free 'at present' so can change; Bracket Order square-off leg attracts standard brokerage.*
- **free_tier**: Entire API is free; Trade Free plan has Rs 0 account opening fee and no renewal fee (source, high) *Non-API brokerage after first 30 days: Rs 10 or 0.05% intraday equity, 0.20% delivery, Rs 10 F&O.*
- **required_account**: Any customer with a Kotak Neo trading account can request API access; generate access token and register static IP (source, high)
- **data_addons**: None stated; live quotes for stocks, ETFs and indices included with no separate data fee (source, medium) *Absence of a fee statement, not an explicit 'no data fee' guarantee.*

Auth

- **method**: Access token (created via Invest > Trade API > API Dashboard > Create Application) plus TOTP login (totp_login) then 6-digit MPIN validation (totp_validate) yielding trade token, TRADING_SID and BASE_URL (source, high)
- **token_expiry**: OAuth2 access token from the WSO2 portal has default validity 3600 s (user can change it); trade token/session lifetime not found (source, medium) *Partial: trade token/session lifetime NOT FOUND. Support page states API sessions must end before next trading day starts (see other_features, unverified).*
- **totp_automation**: TOTP from an authenticator app must be registered on the Kotak website beforehand (QR valid 5 min); SDK login takes the 6-digit TOTP code so a programmatic TOTP generator is feasible, but no official automation guidance found (source, medium)
- **static_ip_required**: Yes: order APIs accept requests only from whitelisted static IPs with session created from the same IP, mandatory from 1 April 2026; Kotak does not provide static IPs (source, high)
- **multi_user**: ? *Not documented. Up to 10 family members can share a whitelisted static IP, but that grants no account access.*

Live Data

- **rest_quotes**: quotes(instrument_tokens, quote_type) with types all, depth, ohlc, ltp, oi, 52w, circuit_limits, scrip_details; accessible with access token without completing login (source, high)
- **depth_levels**: ? *Market depth is available (quote type depth, or isDepth=True on subscribe) but the number of levels is not stated.*
- **ws_instrument_limit**: Max 200 scrips per subscribe request (per-request limit; total simultaneous cap not stated) (source, medium)
- **ws_connection_limit**: ?
- **tick_by_tick**: ? *Not documented. Note market-feed WebSocket (HS feed) deprecation on 15 Sep 2026 with migration to a new feed.*
- **oi**: Yes, via quote type oi (source, high)
- **greeks**: ? *Greeks not documented in any source reviewed. Option chain FAQ exists but answer not fetched.*
- **indices**: Equity, ETF and index live quotes are available to developers (source, high)

Historical

- **intervals**: Historical data currently unavailable via API per Kotak support FAQ; PyPI SDK page lists a historical_data.md doc (source, medium) *Support FAQ says unavailable; third-party README (unverified) lists per-request ranges 30d for 1-5 min, 90d for 30-60 min, 180d daily. See conflicts.*

- **intraday_depth**: None available: Kotak support states 'Historical data is unavailable at the moment' (no depth stated) (source, medium)
- **daily_depth**: None available: Kotak support states 'Historical data is unavailable at the moment'; contradicts third-party multi-year archive claim (source, medium)
- **expired_fno**: ? *Not documented.*
- **continuous_futures**: ? *Not documented.*
- **cost**: No separate fee stated; Trade API is free at present (but historical data itself is reported unavailable) (source, low)

Trading

- **order_types**: SDK accepts L, MKT, SL, SL-M; products include delivery, intraday, F&O, cover, bracket and AMO. Note SEBI rules disallow market orders for retail algo trading (source, high) *MKT param exists in SDK but Kotak support says retail algo market orders are not allowed.*
- **gtt**: GTT exists on the Neo platform with trigger validity of one year; Trade API support for GTT not found (source, low) *Validity quote: 'The trigger's validity period is one year.' API support unconfirmed.*
- **basket**: ? *Basket-order FAQ exists, answer not fetched; API support unconfirmed.*
- **multi_leg_options**: ? *Not documented in fetched sources.*
- **margin_calculator**: margin_required method calculates margin for a given trade (source, high)
- **postbacks_webhooks**: ? *Postbacks not documented. A WebSocket order/position feed exists (create_order_feed).*
- **segments_exchanges**: Equity and F&O confirmed (NSE derivatives requires authorisation); currency/commodity via API unconfirmed (FAQ not fetched) (source, medium)

Limits

- **rest_rate_limits**: ? *Non-order REST limits not documented.*
- **orders_per_second**: 10 orders per second (source, medium) *A search snippet of the Kotak guide claims 20/sec; see conflicts.*
- **daily_caps**: ? *No daily order cap stated in any source.*

Dev Experience

- **official_sdks**: Python: kotakneoapi 3.0.13 (PyPI, Oct 28 2026, Python >=3.10 <3.15); GitHub Kotak-Neo/Kotak-neo-api-v2 (archived). .NET package Kotak.NeoTradeApi 0.1.0-ci1 exists (official status unclear). REST-based API (source, medium) *GitHub repo says API version 2.0.0 but install pins @v2.0.2.*
- **doc_quality**: ? *Per-method docs exist in GitHub repo but many support FAQ answers were not fetched; no judgement possible.*
- **sandbox_paper**: ? *No sandbox or paper trading documented; only 'prod' environment named.*
- **changelog_freshness**: No changelog; GitHub Releases empty. PyPI shows 3.0.13 released Oct 28 2026 (source, medium)
- **github_activity**: Kotak-neo-api-v2 repo archived by owner on Sep 10 2026 (read-only); Kotak-Neo/Kotak-Neo shows zero open issues (source, high)

Compliance

- **sebi_algo_fit**: Static IP whitelisting from 1 Apr 2026; Algo ID appended automatically by Kotak; 10 OPS cap; market orders not allowed for retail algo; credentials for own use only; sessions must end before next trading day (source, high)
- **redistribution_commercial_terms**: API access and credentials are exclusively for the client's own use; fintech partners must be empanelled with exchanges and host on broker systems. No market-data redistribution terms found (source, medium)

Reliability Support

- **outages**: No stability issues listed by an aggregator; one user reported a stuck order during an Oct 2025 cross-broker outage (source, low)
- **support_channels**: Email neo.api@kotak.com (API issues), Ks.apihelp@kotak.com, service.securities@kotak.com; helpline 1800-209-9191; Neo FAQ/support site (source, medium) *Helpline number conflicts across pages.*
- **community_size**: ? *No quantitative community data found.*

Community

praise

- Strategy bot feature described as 'really awesome' by a user who switched to Kotak Neo (Jul 12) (source, low)
- User calls Kotak Neo strategy bot 'the best available product among all platforms' for options (Jan 16) (source, low)
- Instant pledged margin took under 2 minutes vs Zerodha one trading day; Rs 10 per order vs Zerodha Rs 20 (May 2025) (source, low)

complaints

- Activation error 'You are not authorised to view this page'; fix is close session and re-login, else email neo.api@kotak.com (source, medium)
- Deleting DefaultApplication loses API trading access; need email to neo.api@kotak.com for fresh credentials (source, medium)
- Order stuck during cross-broker outage (Oct 2025) (source, low)
- Built-in algo strategy feature called 'very basic' (May 2025) (source, low)
- Spam calls after opening demat account (Sep 3) (source, low)

comparison_claims

- Kotak API free while Zerodha Kite Connect quoted at Rs 2,000 per month (secondhand aggregator) (source, low)
- Kotak is the cheaper alternative with less community evidence behind it (aggregator) (source, low)
- Kotak free API among full-service brokers; Dhan noted for speed and webhook automation (search snippet) (source, low)
- Sub-50ms latency is a social-thread claim, not a benchmark (source, low)

Other features

- **Session lifetime**: All API sessions must end before the next trading day starts [spot-check 2026-11-03: not found on the cited page; page says sessions do not auto-terminate on IP change; low confidence] (source)
- **Instrument master CSV**: Downloadable CSVs via {BASE_URL}/script-details/1.0/masterscrip/file-paths (source)
- **WebSocket order/position feed**: client.create_order_feed() connects to wss:///realtime (source)
- **Market feed migration**: Existing HS feed WebSocket deprecated 15 Sep 2026; migration to new feed required (source)
- **Market price protection**: MPP parameter on place_order, default 0 (source)
- **Order and trade reports**: order_report, order_history, trade_report (source)
- **Learning program**: Webinars, courses and videos announced for Trade API and algo trading (user report, Nov 2025) (source)
- **Static IP family sharing**: Up to 10 family members can share a whitelisted static IP; sharing grants no account access (source)

- **Developer-claimed latency**: Under 50 ms order execution (vendor marketing, not benchmarked) (source)

Flags

- Free pricing is 'at present' and may change
- Historical data availability contradicted between support FAQ and SDK listing
- Many support FAQ answers (GTT, basket, option chain, currency/commodity) were title-only; marked '?'
- Order rate limit 10 vs 20 per second conflict
- GitHub SDK repo archived Sep 10 2026 and HS market feed deprecated Sep 15 2026; confirm current feed and SDK
- WebSocket scrip cap 200 (official FAQ) vs 30 (third-party) per request
- Spot-check 2026-11-03: 'sessions must end before the next trading day' not found on the cited static-ip-details page

Conflicts

- **limits.orders_per_second**: 10 orders per second (src) vs up to 20 orders/second (search snippet) (src) vs up to 10 orders per second (third-party review) (src). Used 10: stated on two Kotak pages and a third-party review.
- **historical.intervals**: Historical data is unavailable at the moment (src) vs Historical candle data listed as SDK feature (historical_data.md) (src). Unresolved; treated as currently unavailable.
- **reliability_support.support_channels**: 1800-209-9191 (src) vs 18002099393 (src). Unresolved; verify on official site.
- **dev_experience.official_sdks**: API version 2.0.0 (src) vs install pinned @v2.0.2 (src). Minor README inconsistency.
- **live_data.ws_instrument_limit**: Max 200 scrips per request (src) vs Up to 30 scrips in one request (third-party review) (src). Used official 200 per request; the third-party figure is older and unverified.
- **historical.daily_depth**: Multi-year archived data available (third-party review of official claim) (src) vs Historical data is unavailable at the moment (src). Unresolved; depth left as ?.

Motilal Oswal MO Open API (motilal)

As of 2026-11-03. Source notes: (internal working notes, not published),pricing,community}.md. "?" = unknown. Full sourced data: motilal.json.

Cost and access

- Free: "absolutely no hidden cost"; REST APIs free of cost (moAPI). Data add-ons: ?
- Needs an MO trading account; API key is the client code, created by the client with mandatory consent. Retail keys activate automatically; vendor API activation needs an email to support; UAT order logs mandatory for Vendor/Dealer (FAQ).

Auth

- Portal login or direct API login v7: Trading ID + SHA-256(password+APIKey) + TOTP or OTP + PAN/DOB 2FA; then access-token endpoint (intro).
- All tokens expire 6:00 AM daily; session lasts 24h or until logout; re-login suggested 8:30-8:55 AM (FAQ).
- TOTP via 32-character secret key from the API dashboard (scriptable; third-party guides still describe manual daily generation).
- Static IP mandatory for orders, retail included: 2 IPs per app, portal update, no renewal, effective 1 Apr 2026 (MO2035 on mismatch).
- Multi-user: multiple API keys, vendor/dealer modes; session cap error MO2000, number not stated.

Live data

- REST: LTP, market depth (sample shows 5 levels), EOD, index data/LTP, scrip master, DPR (JSON and CSV).
- WebSocket Broadcast: registered scrips only, market hours; DayOHLC, LTP, DPR, MarketDepth, OpenInterest, Index packets; OI yes; indices yes. Instrument limit: ?; connection limit: ?; tick-by-tick: ?; Greeks: ?

Historical

- Only end-of-day OHLC/volume documented. Intervals, intraday depth, daily depth, expired F&O, continuous futures, cost: all ?. Third-party claim of intraday candles is unverified.

Trading

- LIMIT/MARKET/STOPLOSS listed, but market orders not permitted via API from 1 Apr 2026; price required. Durations DAY/GTC/GTD/IOC; products incl. VALUEPLUS, BTST, MTF.
- No bulk/basket API; GTT: ?; multi-leg options: ?. Margin Summary/Detail reports (no pre-trade calculator found).
- Webhook trade status (HTTPS POST) and Trade WebSocket. Exchanges: NSE CM/CD/FO, BSE, MCX, NCDEX.

Limits

- Orders: 10/s per exchange/segment per client (UCC), broker may set lower; excess throttled or rejected. Daily caps: ?
- REST limits not in official docs; stale 2024 review says 2/s general and 1/s for quotes/masters (low confidence).

Dev experience

- Official libraries: C#/.Net, Python, NodeJS, Java, Postman (intro). UAT environment available.

- Docs: single page plus FAQ, with inconsistencies; no changelog, footer says 2022. GitHub PythonSDK: last commit 2026-09-04, 6 stars, 10 forks, 5 open issues, no releases.

Compliance

- algoid field on orders (MO1064 if invalid), static IP, 10 OPS retail cap, Algo ID registration above threshold; cites SEBI circular of 4 Feb 2025.
- Market data not redistributable; consumption by registered clients/vendors only.

Reliability and support

- Outages: ? (no status page). Support: tradingapi@motilaloswal.com. Community: small; OpenAlgo lists Motilal as a primary broker.

Community voice (low confidence)

- Praise: free with reasonable limits.
- Complaints: manual daily token, 30s TOTP window, limited OpenAlgo plugin scope.
- Comparisons: none found.

Conflicts

- Order types: MARKET listed in docs vs disallowed since 1 Apr 2026 (FAQ wins).
- Order rate: 10/s (FAQ) vs 40/s (stale review).
- Re-login window: 8:30-8:55 (FAQ) vs 8:35-9:00 (review).
- Tick-by-tick and intraday history: absent from docs vs unverified third-party claims; left as ?.
- Basket/GTT: no native API vs "via strategy layer".

Other features

Position Conversion, Participant and Brokerage Detail reports, DPR data, scrip master with maxqtyperorder, no direct browser calls, installedappid/imeino headers.

Spot-check 2026-11-03

- 11 fields confirmed against live pages; 0 contradicted.
- auth.multi_user: unsupported by cited page as of 2026-11-03 (FAQ does not mention MO2000 or multiple API keys); confidence lowered medium to low.

mStock (Mirae Asset) Trading API

As of 2026-11-03. Unknown fields marked '?'.

access_cost

- **api_fee**: Rs 0: Trading API and Data API free, Rs 0 one-time charges (source, medium)
- **free_tier**: No separate tier; API usable at no extra cost once the account is activated (source, medium)
- **required_account**: Active mStock trading and demat account (opened after IPV and client due diligence); subscription key generated on tradingapi.mstock.com (source, high)
- **data_addons**: None found; Data API charge listed as Rs 0 (source, medium)

auth

- **method**: API key + request token + checksum via generate_session (user ID/password login, optional verify_totp); header 'Authorization: token api_key:jwtToken'; partner flow via api.mstock.trade/login with platform_key (source, high)
- **token_expiry**: Access token valid within 12 hours or same day, whichever is first; API key valid 1 year, 1 month, 1 day (source, high)
- **totp_automation**: TOTP verification is optional via verify_totp in the SDK; automation feasibility not documented (source, low)
- **static_ip_required**: ? (unknown)
- **multi_user**: Partner onboarding: platform_key issued on request by Partner Integration team; per-user ApiKey and JWT returned on redirect (source, medium)

live_data

- **rest_quotes**: Market Quotes and Instruments pages exist under Type A docs (source, low)
- **depth_levels**: 5 bid and 5 ask levels with qty, price and number of orders (full mode) (source, high)
- **ws_instrument_limit**: ? (unknown)
- **ws_connection_limit**: ? (unknown)
- **tick_by_tick**: Not claimed; modes are ltp, quote and full (full includes depth) (source, medium)
- **oi**: Quote packet includes OI high and low fields (source, medium)
- **greeks**: Not available; option-chain APIs are marked Coming Soon (source, medium)
- **indices**: 48-byte index packet for non-tradable index tokens with LTP, OHLC, change and circuit limits (source, high)

historical

- **intervals**: minute, day, 3minute, 5minute, 10minute, 15minute, 30minute, 60minute (source, high)
- **intraday_depth**: ? (unknown)
- **daily_depth**: ? (unknown)
- **expired_fno**: ? (unknown)
- **continuous_futures**: ? (unknown)
- **cost**: Free (Data API Rs 0) (source, medium)

trading

- **order_types**: MARKET, LIMIT, SL, SL-M; products CNC, NRML, MIS, MTF; validity DAY, IOC; varieties regular, amo (source, high)
- **gtt**: ? (unknown)
- **basket**: Basket APIs: create, fetch, rename, delete and calculate (source, medium)

- **multi_leg_options**: ? (unknown)
- **margin_calculator**: POST openapi/typea/margins/orders returns span, exposure, option premium, additional, VAR, charges and total (source, high)
- **postbacks_webhooks**: Order status available over WebSocket (MTicker order and trade callbacks); no HTTP postbacks found (source, medium)
- **segments_exchanges**: NSE, NFO, BSE, BFO; equities and derivatives (source, medium)

limits

- **rest_rate_limits**: Order APIs 250/min and 1000/hour; Data APIs 1000/min and 5000/hour; Quote and Non-trading unlimited per min/hour (table garbled) (source, low)
- **orders_per_second**: 30 requests/sec (intro rate-limit table) (source, medium)
- **daily_caps**: Unlimited per day for all four API categories (source, medium)

dev_experience

- **official_sdks**: Python (pytradingapi-typeA/B, PyPI mStock-TradingApi-A 0.1.9), Node.js/TypeScript (nodetradingapi-typeA/B), Postman collection (source, high)
- **doc_quality**: Type A/Type B split docs with endpoints, error types and packet layouts; some pages gated (AccessDenied without /docs/v1), option chain Coming Soon, byte order unstated (source, medium)
- **sandbox_paper**: ? (unknown)
- **changelog_freshness**: No changelog published; API version 1.0 with placeholder for future notes (source, high)
- **github_activity**: 4 repos, MIT, 2-11 stars each, each with a single 'Initial commit' dated 2026-03-02 (source, medium)

compliance

- **sebi_algo_fit**: ? (unknown)
- **redistribution_commercial_terms**: ? (unknown)

reliability_support

- **outages**: Daily BOD 07:00-08:30 and EOD 19:00-21:00 windows may affect performance; community reports app/platform outages (2022-10, whole day) (source, medium)
- **support_channels**: Partner Integration team at tradingapi@mstock.com; community reports phone support poor/unreachable (source, medium)
- **community_size**: No forum or user count found; SDK repos have 11, 3 and 5 stars (source, low)

community

praise

- Zero brokerage is the one positive cited (source)
- One user found no significant issues (switched from Zerodha Kite) (source) **complaints**
- App hangs, 'not connected to server', high order latency (2024-01) (source)
- Cannot exit positions or place orders (2024-04/05) (source)
- Customer support called worst/unreachable (2024-04, 2024-10) (source)
- Platform down for a whole day (2022-10-12) (source)
- Slow order placement and crashes (2025-01) (source) **comparison_claims**
- 'Zerodha is way better' (2024-03) (source)
- Trading experience below Zerodha, Fyers, Angel and Ventura (2025-10) (source)

other_features

- **Official brokerage**: Rs 10/order on F&O, MTF and intraday; Rs 0/order first 30 days (source)
- **Historical bar cap**: 1000 bars per request regardless of timeframe (source)
- **Error model**: JSON status/message/error_type; APIKeyException 403, TokenException 401, InputException 400, 404; some order errors return HTTP 200 (source)
- **Cancel-all and order read endpoints**: POST orders/cancelall; GET orders, trades, tradebook, order/details (source)
- **Streaming protocol**: wss://ws.mstock.trade with API_KEY/ACCESS_TOKEN, then LOGIN:; JSON subscribe/unsubscribe/mode; binary packets (source)
- **Option chain APIs**: Endpoints defined but marked Coming Soon (source)
- **Top gainers/losers, portfolio, positions**: Listed in Type A docs sidebar (source)

flags

- Third-party review contradicts itself on fees (Rs 5 vs Rs 10; 'no subscription' vs 'monthly fee')
- Rate-limit table garbled; per-category mapping uncertain
- Static IP, sandbox, GTT, expired F&O, SEBI/Algo ID status not found
- SDK repos show only an initial commit (2026-03-02); thin maintenance history
- Recurring community complaints on stability and support

conflicts

- **access_cost.api_fee**: Free; Rs 0 one-time (https://www.mstock.com/trading-api) vs Available to retail at a monthly fee (https://www.chittorgarh.com/broker/mstock/api-for-algo-trading-review/181/). Prefer official page; same review also says no subscription fees.
- **other_features.Official brokerage**: Rs 10/order (https://www.mstock.com/trading-api) vs Rs 5/order (https://www.chittorgarh.com/broker/mstock/api-for-algo-trading-review/181/). Prefer official Rs 10; review is internally inconsistent.
- **limits.orders_per_second**: 10 orders/sec (https://www.mstock.com/trading-api) vs 30 requests/sec (https://tradingapi.mstock.com/). Likely 30 requests/sec vs 10 orders/sec are different measures; unconfirmed.
- **limits.rest_rate_limits**: Data APIs 1000/min, 5000/hour (https://tradingapi.mstock.com/) vs Data APIs 1 request/sec (https://www.chittorgarh.com/broker/mstock/api-for-algo-trading-review/181/). Unresolved; table column mapping garbled.

Spot-check 2026-11-03

- 11 fields confirmed, 0 contradicted, 1 unsupported.
- **limits.orders_per_second**: unsupported by cited page as of 2026-11-03 (https://tradingapi.mstock.com/ does not say "30 requests/sec"; the official trading page says "10 orders/sec"). Confidence stays low (already at floor); flag added.

Nuvama Wealth (API Connect)

As of 2026-11-03. Fields marked ? are unknown.

access_cost

- **api_fee**: Free; Chittorgarh frames it as a first-year promotion (page dated 2024-11-27), AlgoTest lists no API fees. Standard brokerage still applies. (source, medium)
- **free_tier**: No permanent free tier stated; API described as free only as a first-year promotion. (source, low)
- **required_account**: Active Nuvama trading/demat account (F&O activated for derivatives) plus API Connect registration to get an API key and secret. (source, medium)
- **data_addons**: None found; no paid data tier stated in library or partner docs. (source, low)

auth

- **method**: Vendor/client flow: vendor login (POST accounts/loginvendor) gives a SourceToken; client is redirected to Nuvama login with first-time data-sharing consent; auth token returned encrypted (AES/CBC/PKCS5) as encrTkn and must be decrypted. Legacy flow uses API key, API secret and request id from the redirect. (source, high)
- **token_expiry**: Vendor session valid 24h from generation; client auth token invalidated after 8h of inactivity or at 12:30 AM every day. (source, medium)
- **totp_automation**: Not found; login is a manual redirect to Nuvama credentials. (source, low)
- **static_ip_required**: true Note: SDK changelog (Python 2.0.11, Node 2.0.15, Java 2.0.10, 2026-03-30) lists 'Static IP Mandatory'; registration process not documented. (source, medium)
- **multi_user**: Vendor model: one vendor session fronts many client users; vendor logout blocks all users under that vendor. (source, high)

live_data

- **rest_quotes**: GET /quote/scrip/{symbol} returns depth data for a symbol. (source, medium)
- **depth_levels**: 5 bid and 5 ask levels (quote2 stream sample). (source, medium)
- **ws_instrument_limit**: ? (Not stated; streaming host ncst.nuvamawealth.com:9443, no limits documented.)
- **ws_connection_limit**: ? (Not stated in docs.)
- **tick_by_tick**: Intraday tick-by-tick historical data endpoint listed in Charting section; docs say data covers every exchange tick. Live tick-by-tick streaming not confirmed. (source, medium)
- **oi**: Reduced quotes stream includes open interest and OI change fields. (source, high)
- **greeks**: Watchlist scrip responses include delta, gamma, theta and vega. (source, high)
- **indices**: Asset types include INDEX, OPTIDX and FUTIDX. (source, medium)

historical

- **intervals**: Intraday: M1, M3, M5, M15, M30, H1. EOD: D1, W1, MN1. (source, high)
- **intraday_depth**: ? (No maximum start date or lookback stated in library docs.)
- **daily_depth**: ? (No maximum start date or lookback stated in library docs.)
- **expired_fno**: Not found in library docs. (source, low)
- **continuous_futures**: Supported via an attribute applicable to FUTIDX, FUTSTK, FUTCUR and FUTCOM. (source, high)
- **cost**: Not found; no charge stated for EOD or intraday history. (source, low)

trading

- **order_types**: LIMIT, MARKET, STOP_LIMIT, STOP_MARKET; validity DAY/IOC/EOS (EOS for BSE), also GTC/GTD in TradeRequest; products CNC, MIS, NRML, MTF, CO, BO; order slicing for equity derivatives. (source, high)
- **gtt**: Not found; only GTC and GTD validity values appear. (source, low)
- **basket**: Basket order request holds a list of orders (GTD date dd-MM-yyyy). (source, high)
- **multi_leg_options**: Not found; only bracket/cover order leg flags (flLg, slLg, tgtLg). (source, low)
- **margin_calculator**: Not found; limits objects expose Margin Available and Margin Utilized only. (source, low)
- **postbacks_webhooks**: Not found; only a streamer callback parameter exists. (source, low)
- **segments_exchanges**: NSE, BSE, MCX; equity, F&O, currency, commodities. (source, medium)

limits

- **rest_rate_limits**: 3000 requests per 5 min per IP (blocked 1 min if exceeded); 86400 total requests per day. Exact limit depends on system conditions and account type. (source, high)
- **orders_per_second**: 10 (source, high)
- **daily_caps**: 2000 orders per day; order:trade ratio 49:1; breach blocks app for a period communicated by email. (source, high)

dev_experience

- **official_sdks**: Python, Node.js, Java, C# (.NET 4.0+). Python 3.7+, Node 14.17.6+, Java JDK 1.8; PyPI APIConnect up to 2.0.11. (source, high)
- **doc_quality**: Single large library-documentation page plus partner auth docs; sample endpoints point to a UAT host; install snippet pins stale Python 2.0.0. (source, low)
- **sandbox_paper**: No sandbox/paper trading found; a UAT environment is referenced for integration testing before switching to production. (source, medium)
- **changelog_freshness**: SDK changelog has entries dated 2026-03-30. (source, medium)
- **github_activity**: ? (Not checked.)

compliance

- **sebi_algo_fit**: Static IP mandatory per SDK changelog; client-details response has an algo-client flag and order details carry algoId/algoCategory. API usage threshold change noted without figure; registration process not documented. (source, medium)
- **redistribution_commercial_terms**: Not found in library docs. (source, low)

reliability_support

- **outages**: ? (No Nuvama API outage history found.)
- **support_channels**: ? (Not found in library or partner docs.)
- **community_size**: ? (No developer forum or community count found.)

community

- **praise**
  - Chittorgarh review (reviewer claim, page updated 2024-11-27): 'powerful and flexible trading API solution for modern traders and developers', fast, reliable and scalable, attractive for algorithmic traders. (source, low)
  - LinkedIn post by a single user says Nuvama Wealth provides the APIs free of cost (unclear which APIs). (source, low)
- **complaints**
  - Google Play aggregator reviews mention lag and crashes during trading hours; concerns the consumer app, not the API. (source, low)

- **comparison_claims**
  - Chittorgarh Dhan vs Nuvama: both marked 'Automated Trading: Yes'; Dhan lists 'APIs for Algo Trading' as a feature; no API fee or quality comparison stated. (source, low)

other_features

- **Streaming channels**: Five streamers: reduced quotes, mini quote, orders, live news, market depth; subscriptions use Symbol_exchange from the Contract File. (source, high)
- **Position endpoints**: Square-off all intraday positions (POST /eq/trade/position/sqroff/v1/{userID}), convert position, AMO status check, RMS holdings. (source, high)
- **Third-party MCP server**: Unofficial community MCP server for Nuvama trade APIs (orders, holdings). (source, low)
- **Login window**: Broker login timing 08:30-15:28 (AlgoTest). (source, low)
- **Brokerage**: Standard brokerage applies to API trades; AlgoTest cites Rs10/order, Chittorgarh comparison cites Rs20/order (Lite plan). (source, medium)

flags

- Most fields rely on a single library-documentation page; no official fee schedule found.
- API fee info is a possibly stale first-year promo (page 2024-11-27).
- GitHub activity, outages, support channels unchecked or not found.

conflicts

- **access_cost.api_fee**: Brokerage Rs10/order (source) vs Brokerage Rs20 per executed order (Nuvama Lite) (source). Unresolved; neither source is Nuvama-official and applicability to API orders is unclear.

Spot-check 2026-11-03

- **auth.token_expiry** CONTRADICTED: page says "Auth token will get invalidated after 8 hours of inactivity, or at 12:30 AM every day." (cutoff is 12:30 AM, not midnight). Original claim kept; confidence low. (source)
- **live_data.depth_levels** unsupported by cited page as of 2026-11-03 (no level count shown); confidence high -> medium.
- 10 other checked fields CONFIRMED.

Samco Trade API

As of 2026-11-03. Fields marked ? were not found in fetched sources.

Field	Value	Source	Conf
access_cost.api_fee	Free (no monthly plan, no usage billing; only standard brokerage and statutory charges apply)	https://www.samco.in/help-support/article/is-there-a-subscription-cost-for-accessing-the-samco-trade-api/	medium
access_cost.free_tier	Entire API, live streaming and historical data are free; no locked features behind a paid tier	https://www.samco.in/help-support/article/is-there-a-subscription-cost-for-accessing-the-samco-trade-api/	high
access_cost.required_account	Samco trading account (client code + password); Web Dashboard login needs registered mobile number and email for OTP	https://docs-tradeapi.samco.in/dashboard/user-manual.html	high
access_cost.data_addons	None; live and historical data included at zero cost	https://www.samco.in/help-support/article/is-there-a-subscription-cost-for-accessing-the-samco-trade-api/	medium
auth.method	OAuth 2.1 Authorization-Code flow (browser login) or direct POST /session/token with API Key + API Secret; session token sent in x-session-token header. Legacy 4-step login/OTP flow deprecated but still working	https://docs-tradeapi.samco.in/release-notes/v3.2.0.html	high
auth.token_expiry	Session token expires at 08:00 IST the next calendar day, regardless of how it was obtained	https://docs-tradeapi.samco.in/overview.html	high
auth.totp_automation	?	-	low
auth.static_ip_required	Yes for order placement/modification: one primary public IPv4 required per OAuth app, secondary optional; IP change allowed once every 7 days (cites SEBI); one IP maps to one client; 403 if IP not registered	https://docs-tradeapi.samco.in/dashboard/static-ips.html	high
auth.multi_user	?	-	low
live_data.rest_quotes	/quote/getQuote, /quote/indexQuote, /quote/multiQuote at 10 req/sec per session and 500 req/sec per IP; /marketDepth at 3 req/sec per session and 20 req/sec per IP	https://docs-tradeapi.samco.in/	high
live_data.depth_levels	5	https://docs-tradeapi.samco.in/streaming/streaming-market-data.html	medium
live_data.ws_instrument_limit	?	-	low
live_data.ws_connection_limit	?	-	low
live_data.tick_by_tick	?	-	low
live_data.oi	true	https://docs-tradeapi.samco.in/streaming/streaming-quote-data.html	medium
live_data.greeks	true	https://docs-tradeapi.samco.in/streaming/streaming-market-data.html	medium

Field	Value	Source	Conf
live_data.indices	Yes: /quote/indexQuote for live index quotes; /history/indexCandleData and /intraday/indexCandleData for index candles	https://docs-tradeapi.samco.in/	medium
historical.intervals	?	-	low
historical.intraday_depth	?	-	low
historical.daily_depth	Adjusted market data back 30 years for NSE Equity and NSE Futures (marketing claim)	https://www.samco.in/help-support/article/what-are-the-benefits-of-using-the-samco-trade-api/	medium
historical.expired_fno	?	-	low
historical.continuous_futures	?	-	low
historical.cost	Free (historical data at zero cost)	https://www.samco.in/help-support/article/is-there-a-subscription-cost-for-accessing-the-samco-trade-api/	high
trading.order_types	Place-order page lists orderType values L (Limit) and SL (Stop Loss Limit) only; MARKET and SL-M not listed there; after-market orders handled via afterMarketOrderFlag. BO and CO endpoints also exist (see other_features)	https://docs-tradeapi.samco.in/order/place-order.html	medium
trading.gtt	Yes: /gttoco/ endpoints addGtt, modifyGtt, deleteGtt, listGttOco (GTT/OCO), each 3 req/sec per session	https://docs-tradeapi.samco.in/	high
trading.basket	Yes: basket/createBasket, executeBasketOrder, rearrangeBasketOrder, each 5 req/sec per session	https://docs-tradeapi.samco.in/	high
trading.multi_leg_options	?	-	low
trading.margin_calculator	Yes: /spanMargin (3 req/sec per session) and basket/spanCalculator (5 req/sec per session)	https://docs-tradeapi.samco.in/	high
trading.postbacks_webhooks	?	-	low
trading.segments_exchanges	Valid exchange values on place-order: BSE, NSE, NFO, BFO, MCX, CDS	https://docs-tradeapi.samco.in/order/place-order.html	high
limits.rest_rate_limits	Two types: session-based and IP-based. Place/Cancel/Modify Order 10/s session, 200/s IP; Order Book 100/s, 200/s; Position Square Off 20/s, 200/s; Get Quote 10/s, 500/s; User Limits 2/s, 200/s; history candleData 5/s, 20/s; marketDepth 3/s, 20/s; Personal Index API example 3/s session, 20/s IP. Samco may impose further limits	https://docs-tradeapi.samco.in/	high
limits.orders_per_second	10 req/sec per session and 200 req/sec per IP on placeOrder (docs table)	https://docs-tradeapi.samco.in/	medium
limits.daily_caps	?	-	low
dev_experience.official_sdks	Python, Node.js, Java (github.com/samco-sdk); v3.2 docs show cURL, Node.js, Java and Python samples for every endpoint	https://docs-tradeapi.samco.in/	high
dev_experience.doc_quality	Versioned docs site (v3.2) with per-endpoint pages, rate-limit table, migration guides and multi-language samples; gaps in intervals, order-type enums and streaming limits	https://docs-tradeapi.samco.in/	low
dev_experience.sandbox_	?	-	low

Field	Value	Source	Conf
paper			
dev_experience.changelog_freshness	v3.2.0 release notes (highlights, new endpoints, deprecations, migration); release date not shown	https://docs-tradeapi.samco.in/release-notes/v3.2.0.html	low
dev_experience.github_activity	3 public repos (Python-SDK 56 commits, 16 stars; Java-SDK and NodeJS-SDK 2 stars each); last-commit dates not shown	https://github.com/samco-sdk	low
compliance.sebi_algo_fit	Static-IP whitelisting for order APIs with 7-day change cooldown, citing SEBI circular SEBI/HO/MIRSD/MIRSD-PoD/P/CIR/2025/0000013 and 'SEBI A.6'	https://docs-tradeapi.samco.in/dashboard/static-ips.html	high
compliance.redistribution_commercial_terms	?	-	low
reliability_support.outages	Forum report 2026-07-20: HTTP 502 Bad Gateway on token endpoint; a reply says login APIs had failed since the previous Saturday	https://forum.samco.in/t/getting-502-server-error-bad-gateway-for-url-https-tradeapi-samco-in/9260	low
reliability_support.support_channels	Official forum (forum.samco.in), help-support articles, TradingQnA threads; third-party customer-service rating 3.2/5 from 26 votes; no branch support	https://www.directionsmag.com/reviews/prop-trading-firms/samco-trading-app	low
reliability_support.community_size	?	-	low

Community

praise

- QuantConnect lists SAMCO as a supported live brokerage (https://www.quantconnect.com/docs/v2/our-platform/live-trading/brokerages/samco)
- Third-party review lists API trading and historic fees as Free (2023) (https://www.chittorgarh.com/broker/samco/api-for-algo-trading-review/138/)

complaints

- Developer hit 502 Bad Gateway on token endpoint on 2026-07-20; reply says login APIs failing since Saturday (https://forum.samco.in/t/getting-502-server-error-bad-gateway-for-url-https-tradeapi-samco-in/9260)
- User says 'The comms and updates needs to uplift from Samco.' (https://forum.samco.in/t/getting-502-server-error-bad-gateway-for-url-https-tradeapi-samco-in/9260)
- User reports glitches, slow website/execution and desktop login failure (search snippet only, undated) (https://tradingqna.com/t/any-samco-user-here-who-faced-issue-with-trading-today/83875)
- Listed con: no branch support (undated) (https://www.directionsmag.com/reviews/prop-trading-firms/samco-trading-app)

comparison_claims

- QuantConnect notes orders do not slip in backtests but may slip in live trading (https://www.quantconnect.com/docs/v2/our-platform/live-trading/brokerages/samco)

Other features

- Bracket and cover orders: Endpoints /order/placeOrderBO and /order/placeOrderCO (https://docs-tradeapi.samco.in/)

- Position square-off: /position/squareOff, 20 req/sec per session (https://docs-tradeapi.samco.in/)
- User limits endpoint: /limit/getLimits, 2 req/sec per session (https://docs-tradeapi.samco.in/)
- Web Dashboard: Self-service portal at tradeapi.samco.in/app/login for OAuth apps, API Key/Secret (up to 5 pairs per account), static IPs and request-IP verification (https://docs-tradeapi.samco.in/dashboard/user-manual.html)
- IP diagnostics: GET /ip/whoami returns request IP using the session token (https://docs-tradeapi.samco.in/dashboard/user-manual.html)
- Scrip master: CSV scrip list for database import; fields not described (https://docs-tradeapi.samco.in/)
- Future Chain endpoint: Listed in docs; details not captured (https://docs-tradeapi.samco.in/)
- Low-code/no-code connection: Vendor says API key can be connected to compatible low-code or no-code platforms (undated) (https://www.samco.in/help-support/article/can-i-automate-my-trading-strategies-using-samco-trade-api/)
- Credential controls: Regenerating key/secret invalidates all prior credentials; deactivating an app revokes all active sessions (https://docs-tradeapi.samco.in/dashboard/user-manual.html)

Conflicts

- access_cost.api_fee: Entirely free; no monthly plan [https://www.samco.in/help-support/article/is-there-a-subscription-cost-for-accessing-the-samco-trade-api/] vs API available to retail customers at a monthly fee [https://www.chittorgarh.com/broker/samco/api-for-algo-trading-review/138/]. Prefer the current vendor help article; the 2023 review also lists API fees as Free.
- live_data.oi: Quote stream provides OI and change in OI [https://docs-tradeapi.samco.in/streaming/streaming-quote-data.html] vs Market-data stream schema has no OI field [https://docs-tradeapi.samco.in/streaming/streaming-market-data.html]. OI available via quote stream only.
- limits.orders_per_second: Up to 200 orders per second per user [https://www.samco.in/help-support/article/what-are-the-benefits-of-using-the-samco-trade-api/] vs placeOrder 10 req/sec per session, 200 req/sec per IP [https://docs-tradeapi.samco.in/]. Docs table is authoritative; 200 matches the per-IP limit, not per-session.

Flags

- Quotes in docs notes are summarizer-returned excerpts, not checked against page source.
- Chittorgarh review is from Nov 2023 (stale, outside 18-month window) and self-contradicts on cost.
- TradingQnA items are search snippets only; page not opened.
- Many streaming, history and trading-detail fields are '?' because the fetched docs pages do not cover them.

Mirae Asset Sharekhan Trading API (sharekhan)

As of 2026-11-03. Source notes: (internal working notes, not published),pricing,community,refetch,refetch3}.md. "?" = unknown. Full sourced data: sharekhan.json.

Cost and access

- API is free, no extra charges or subscription; orders billed at existing brokerage (FAQ).
- Requires an active Sharekhan account. Free account sign-up is conditional (FREE* footnote) (landing).

Auth

- API Key and Secure Key issued after signup; trading sessions generated via API. Login via redirect to Sharekhan login page (SDK login_url, generate_session). Static IP: third-party Tradetron guide says Sharekhan support maps the IP (low confidence; not on Sharekhan pages). Token expiry, TOTP automation, multi-user: ?

Live data

- Top 5 bid/ask depth, OI, all-segment streaming; 1000 symbols per WebSocket connection (FAQ). Tick-by-tick, greeks, indices, connection count: ?

Historical

- EOD since inception (not corporate-action adjusted); intraday last 7 days; NSE/BSE equity, NSE F&O, NSE currency, MCX. Expired F&O: ?

Trading

- Place, modify, cancel, square-off, cancel-all; intraday and delivery; BigTrade, EMF, trailing SL. Basket: coming soon. GTT, multi-leg, webhooks: ?

Limits

- A 2023 SKAPI PDF gives quote 1/s, orders 5/s, historical 3/s, 25 modifications per order, WebSocket 3,000 instruments (low confidence, conflicts with FAQ 1000). Landing claims up to 30 requests/s; FAQ shows unfilled placeholder "XX". Daily caps: ?. Data add-ons: none stated ("No additional charges are applicable for using API.")

Dev experience and support

- SDK repos (Python, Node.js, R, PHP, Java, C#) at github.com/Sharekhan-API; PyPI shareconnect 1.0.0.11. PyPI releases last Jun 2023 (1.0.0.11), no changelog. Sandbox: ?
- Support: skapi@sharekhan.com.

Conflicts

- Order rate: 30 rps vs placeholder vs 5/s in 2023 PDF. WebSocket cap: 1000 (FAQ) vs 3,000 (2023 PDF). SDK language lists differ across FAQ, landing page, GitHub. Free: "Absolutely FREE" vs conditional account footnote.

Flags

- Compliance, outages, community size unknown.

Shoonya (Finvasia) API profile

As of 2026-11-03. Sources are in-line; '?' = unknown.

Access Cost

- **api_fee** (low): No API fee published; secondary source says API is free via Finvasia support. Terms say API charges may be fixed or variable at Finvasia's sole discretion and are non-refundable. source
- **free_tier** (high): Account opening Rs 0; no separate free plan described. Brokerage: equity delivery 0, intraday/futures 0.03% or Rs 5 whichever lower, options flat Rs 5 + GST per executed order. source
- **required_account** (medium): Shoonya (Finvasia) trading account; API access is obtained by contacting support and the user must be enabled for API. source
- **data_addons**: ? (Data add-on and licence fees not stated in pricing or terms pages reviewed; terms say charges are communicated separately in writing.)

Auth

- **method** (high): OAuth 2.0 only: hosted Noren login, short-lived auth code, server-side GenAcsTok exchange with SHA256(client_id+secret_code+auth_code) checksum, access token used as Bearer. source
- **token_expiry**: ? (Token expiry/session rules not stated in the notes (TOTP guide explicitly does not state them).)
- **totp_automation** (medium): Official OAuth path: 'no TOTP auto-login flow'. Legacy password/TOTP NorenApiPy wrapper and a TOTP setup guide exist; OAuth SDK browser-login helper depends on selenium + pyotp. source
- **static_ip_required** (high): Yes. Requests accepted only from IPs registered against the Client ID; IP must be static; mandatory for order placement from 1 Apr 2026; up to 2 IPs per API key. source
- **multi_user** (medium): Single-user: credentials are for the client's own use only and API access only for own trades; immediate family may share one IP with broker written consent. source

Live Data

- **rest_quotes** (high): Market Quotes is a single-shot snapshot (LTP, OHLC, top-of-book bid/ask), ~1 req/sec per instrument; option chain endpoint returns calls and puts across strikes in one call. Docs advise WebSocket instead of polling. source
- **depth_levels** (medium): Documented feed is touchline level-1 only (bp1/sp1); WebSocket overview mentions a market depth feed type but number of levels not stated. source
- **ws_instrument_limit** (medium): 500 tokens per connection (changelog clarification). source
- **ws_connection_limit** (high): 1 WebSocket connection per session. source
- **tick_by_tick**: ? (Not stated in notes.)
- **oi** (medium): Option chain gives OI per strike (updates less often than LTP); historical response includes oi field (unverified against live capture). source
- **greeks**: ? (Option Greeks docs page returns HTTP 404; no other source.)
- **indices**: ? (Index data availability not stated; community issue reports trouble getting spot NIFTY/BANKNIFTY from time price series.)

Historical

- **intervals** (high): Intraday candles 1,3,5,10,15,30,60,120,240 minutes (Time Price Series); daily via EODChartData. source
- **intraday_depth** (medium): Only a shallow lookback window, not quantified; epoch-second from/to required. source
- **daily_depth** (medium): No maximum range stated; described as spanning weeks, months or years. source

- **expired_fno**: ? (Not stated in notes.)
- **continuous_futures**: ? (Not stated in notes.)
- **cost**: ? (Historical data cost not stated; only that historical has a lower burst allowance.)

Trading

- **order_types** (high): Place Order accepts only LMT and SL-LMT (MKT rejected); product types C, M, I; CO and BO not supported. source
- **gtt** (high): Yes. Price-based trigger vs LTP; prctyp LMT/MKT/SL-LMT/SL-MKT/DS/2L/3L; validity DAY or GTT; returns al_id for cancel. Described as superset of Set Alert. source
- **basket**: ? (No basket endpoint found; Python SDK documents none (absence not proof).)
- **multi_leg_options** (low): Only as GTT prctyp 2L and 3L; leg behaviour undocumented. source
- **margin_calculator** (medium): Python SDK exposes span_calculator and get_limits (funds). source
- **postbacks_webhooks** (low): WebSocket carries order-status updates; a webhook section is mentioned in docs listing (unverified). source
- **segments_exchanges** (medium): NSE and MCX confirmed (GTT docs); equity, futures, options, commodities and demat per pricing; BFO data reported in community issue. source

Limits

- **rest_rate_limits** (high): Market data ~1 req/sec per instrument; historical lower burst allowance (no number); numbers server-side, may change without notice, design guidance not contract. Throttled calls return Not_Ok / Rate_Limited. source
- **orders_per_second** (high): ~10 req/sec burst-limited per user across Place, Modify, Cancel (and GTT); higher rate needs approved SEBI Algo ID plus checkbox on IP whitelisting screen. SEBI OPS threshold 10/sec per exchange per client. source
- **daily_caps**: ? (Docs say quotas are enforced per day but publish no figure.)

Dev Experience

- **official_sdks** (high): Python (pip NorenRestApiOAuth, repo Shoonya_API_OAuth) and .NET (ShoonyaApidotNet, .NET Standard 2.0, no NuGet package). Python SDK documents no basket, GTT or postback methods. source
- **doc_quality** (medium): Structured docs with changelog, rate limits, TOTP guide and compliance pages, but gaps: Option Greeks page 404, historical schema flagged unverified, Algo ID field name still being finalized. source
- **sandbox_paper**: ? (No sandbox or paper environment described; quick-start only says to confirm a paper/test account before running the live order example.)
- **changelog_freshness** (medium): Public changelog with entries through March 2026 (Aug 2025 rate limits and multi-IP, Mar 2026 Algo ID explainer, Apr 2026 mandates). source
- **github_activity** (medium): Official OAuth SDK repo last pushed 2026-08-19, 4 stars, no releases. Legacy community repo ShoonyaApi-py last pushed 2024-07-29, 166 stars, 22 open issues, maintainer replies absent. source

Compliance

- **sebi_algo_fit** (high): Every order must carry exchange-assigned Algo ID from 1 Apr 2026; static whitelisted IP; strategies registered with Shoonya compliance (including single-user scripts); above 10 OPS needs exchange registration. source
- **redistribution_commercial_terms** (high): India-only limited licence; no public display, redistribution, caching for redistribution, sublicensing or virtual/mock trading apps; platforms for other Finvasia clients allowed after exchange approval; liability capped at INR 100; terms changeable. source

Reliability Support

- **outages** (low): No status page or uptime guarantee (terms disclaim uptime). Community reports intermittent 502 bad gateway and WebSocket failures in 2025-2026 (issue titles only). source
- **support_channels** (medium): 24/7 customer support per review site; API support by contacting support team; GitHub issues often unanswered. source
- **community_size** (medium): Legacy ShoonyaApi-py 166 stars and 22 open issues; official OAuth SDK 4 stars; small, mostly unofficial wrapper ecosystem. source

Community

Praise

- 'it is great.' (2022, outside window) source
- 'so far all good.' after a month of use (2022, outside window) source
- Login done with a single request, unlike Zerodha's flow (2022; predates OAuth) source
- 24/7 customer support listed as positive source

Complaints

- WebSocket silently drops subscriptions beyond ~100th token (164 subscribed, ~100 receive data), no maintainer reply source
- Intermittent 502 bad gateway errors (title only) source
- Login not working even after adding the IP (title only) source
- Websocket feed lag (title only) source
- Platform can be slow and may not update prices or orders in real time source
- Unofficial wrapper: Modify Orders under development and API does not work Saturday/Sunday source
- Search snippet claims intraday moved to Rs 5 per trade from Dec 2024 (no longer free; unverified) source

Comparison Claims

- Login is one request, unlike the Zerodha login flow (2022) source
- 0.30% per order is high for small-capital entry-level strategies (2022) source

Other features

- **Option chain endpoint**: Calls and puts across strike range for an underlying and expiry in one call; cnt default 10; LTP and OI per strike source
- **Alerts endpoints**: set-alert, cancel-alert, modify-alert source
- **Account endpoints**: Daily MTM, Positions, Holdings, Funds Limits source
- **IPv6 host**: IPv6 clients must use trade.shoonya.com instead of api.shoonya.com source
- **Prices as strings**: Market Quotes prices are strings in raw responses source
- **Log retention**: Clients must keep API trails/logs for at least 5 years; audit on 14 days notice source
- **Brokerage and demat charges**: DP Rs 9 + GST/scrip; pledge/unpledge Rs 20; AMC 0 except Rs 900 for corporate/trust/LLP; mutual funds commission-free source
- **Third-party integrations**: AlgoJi API connects to TradingView, MT4, MT5, AmiBroker, NinjaTrader, Python source
- **Termination terms**: Finvasia may terminate without cause immediately; user needs 15 days notice; key may be disabled without notice for buggy algos source

Flags

- API terms say APIs are not meant for fully automated trades without manual intervention, yet Algo ID/OPS framework supports automated strategies
- Official docs say OAuth only / no TOTP auto-login, but TOTP guide and pyotp-dependent SDK helper exist
- WebSocket 500-token documented limit vs community report of silent drop near 100 tokens

- Brokerage: pricing page vs third-party claims of Rs 5 intraday end of zero brokerage (unverified snippets)
- Most community evidence is 2022 (outside 18-month window) or issue titles only; maintainers do not reply on legacy repo
- Option Greeks docs page returns 404
- Algo ID request field name still being finalized per compliance page

Conflicts

- **auth.totp_automation**: OAuth only; no TOTP auto-login flow (src) vs TOTP setup guide enables login without manual OTP entry; SDK helper uses pyotp (src). Resolution: TOTP applies to legacy NorenApiPy password flow and browser-login helper; official OAuth path has no native TOTP auto-login.
- **live_data.ws_instrument_limit**: 500 tokens per connection (src) vs Subscriptions beyond ~100th token fail silently (src). Resolution: Unresolved; legacy wrapper report may not reflect OAuth API. Using documented 500.
- **access_cost.api_fee**: API free via support (src) vs API charges fixed or variable at Finvasia's sole discretion (src). Resolution: No fee published; terms reserve right to charge.
- **access_cost.free_tier**: Start with Rs 0; intraday 0.03% or Rs 5 whichever lower (src) vs Rs 5 per intraday trade, zero brokerage ended Dec 2024 (src). Resolution: Prefer official pricing page; third-party claim unverified.
- **compliance.sebi_algo_fit**: APIs not meant for fully automated trades without manual intervention (src) vs Strategies can be registered and receive Algo IDs; OPS framework for automated orders (src). Resolution: Unresolved; confirm with onboarding contact.

Spot-check 2026-11-03

- **access_cost.api_fee**: Re-check 2026-11-03 CONFIRMED (first-pass CONTRADICTED was a misattribution). "API charges: ₹0" is on the AlgoTest page, not shoonya.com/pricing, which has no API charge line; terms s.6(a) reserve right to charge. Value kept; confidence low.
- **live_data.rest_quotes**: not found on cited page (~1 req/sec is on the rate-limits page). Confidence high -> medium; flagged "unsupported by cited page as of 2026-11-03".
- **auth.method**: not found on cited page ("OAuth 2.0" and SHA256 formula not stated). Confidence medium -> low; flagged.
- **auth.static_ip_required**: partial. Static IP confirmed; 1 Apr 2026 date and "2 IPs per API key" not on page. Flagged, confidence unchanged.
- Confirmed: free_tier, ws_instrument_limit, ws_connection_limit, rest_rate_limits, orders_per_second, historical.intervals, intraday_depth, depth_levels.

Stoxkart (Superr API)

As of 2026-11-03. Fields marked ? were not found in the notes. Full sourced data: `stoxkart.json`.

Access and cost

- API is free: no subscription and no extra charges; orders billed at normal brokerage (Rs 15 per executed order for intraday/F&O per AlgoTest). Sources: https://developers.stoxkart.com/faqs/general-faqs, https://docs.algotest.in/broker/stoxkart/
- Needs a Superr API developer account; F&O must be activated to trade derivatives.
- No separate data fee stated.

Auth

- API key and secret, registered redirect URL, request token, HMAC-SHA256 signature POSTed to `/auth/token`. Source: https://developers.stoxkart.com/api-documentation/login
- Tokens valid at least 12 hours, invalidated after inactivity. Source: https://developers.stoxkart.com/faqs/technical-faqs
- TOTP automation: not in default SDK; open unmerged PR #6 adds pyotp TOTP (low confidence). Source: https://github.com/StoxKart-Tech/superrapi-python/pull/6
- Multi-user: terms allow building platforms for other Stoxkart clients after exchange approval; credentials for registered user only (low). Source: https://developers.stoxkart.com/terms-and-conditions
- Static IP: ? (still not found)

Live data

- REST: POST `/quotes`, `/quotes/ohlc`, `/quotes/ltp`, up to 50 instruments per call; full quote has depth and OI. Source: https://developers.stoxkart.com/api-documentation/instruments
- WebSocket: 5-level depth, binary packets, index streaming (LTP/Quote/Full), no stated subscription limit per connection. Source: https://developers.stoxkart.com/api-documentation/websocket
- Connection limit, tick-by-tick, greeks: ?

Historical

- Docs page returns 404. All six fields ?. A `getCandleData` endpoint appears in the rate-limit table at 3 req/s.

Trading

- Order types LIMIT, MARKET, SL, SL-M; varieties normal, amo, bo. Source: https://developers.stoxkart.com/api-documentation/orders
- Exchanges: nse, bse, nfo, mcx, nsecd.
- Basket: no API endpoint; browser Publisher plugin allows up to 10 instruments (low). Postback URL optional field receives order status (medium). Source: https://developers.stoxkart.com/faqs/technical-faqs
- GTT (rule APIs only in rate-limit table), multi-leg, margin calculator: ?

Limits

- 10 req/s for orders, LTP, position conversion, rules; 3 req/s candles; 1 req/s login, order book, funds, holdings, positions. Source: https://developers.stoxkart.com/api-documentation/rate-limit
- Daily caps: ?

Dev experience

- SDKs: Python, Node.js, C# on GitHub; Java and Go listed without links. Python repo: 7 commits, 3 open issues, no releases.
- FAQ lists five SDKs (Python, Java, Go, .NET, Node.js); Python repo StoxKart-Tech/superrapi-python last push 2023-04-17, open issues #4 and #5 report bugs.
- Docs have internal inconsistencies; key pages dated 2023. Changelog: none; pages dated July 2023 to April 2024 (medium). Sandbox: ?

Compliance, support, community

- SEBI algo fit: usable with third-party low-code algo platforms; no algo ID statement (low confidence). Redistribution: live data may not be shown publicly, no cached copies for redistribution (medium; https://developers.stoxkart.com/terms-and-conditions). Terms say APIs are not meant for fully automated trades without manual intervention.
- Phone 1800113331 / 011-40820400, stoxkart@stoxkart.com, igc@stoxkart.com (grievances). Outages: no status page, terms promise no performance (low). Community size: ? (forum does not resolve).
- InvestorGain 4/5 from 20 users. AlgoTest integrates the API.

Conflicts

- Rate limit breach: 403 (rate-limit page) vs 429 (error-codes page).
- Login redirect: request token vs auth_token/feed_token.
- Quote params: query vs JSON body.
- WS subscriptions: no limit (FAQ) vs scripId array sized 20.
- BO modify: parent_order_id vs order_id.
- WS LTP request code 72 vs 71.
- API fee: FAQ says free vs terms say Stoxkart may charge selectively.

Unknown (16 of 50 fields)

static_ip_required, ws_connection_limit, tick_by_tick, greeks, all six historical fields, gtt, multi_leg_options, margin_calculator, daily_caps, sandbox_paper, community_size.

Spot-check 2026-11-03

- live_data.ws_instrument_limit CONTRADICTED: original claim kept, confidence lowered to low. Page quote: "There is no limitation for subscription to one WebSocket connection." (https://developers.stoxkart.com/faqs/technical-faqs). "ScripCount default 1" is not on that page; the websocket page declares a scripId array of size 20 (see Conflicts).
- 11 other checked fields CONFIRMED. Unconfirmed sub-claims: "HTTP 403 means relogin", "no separate order cap".
- live_data.ws_instrument_limit re-check: CONFIRMED (first-pass CONTRADICTED was a misread). FAQ: "There is no limitation for subscription to one WebSocket connection." Websocket page: ScripCount default 1; request struct carries up to 20 scrip IDs per message. Source now cites both pages; confidence stays low. Flag: per-message 20-scrip struct vs no per-connection limit unresolved.

Tradejini (CubePlus API)

As of 2026-11-03. Fields marked ? were not found in the notes. Full sourced data: `tradejini.json`.

Access and cost

- API is free with no usage charges (market data, orders, portfolio, statements, historical). KB
- Needs an active retail trading account; register an app on the Developer Portal for api_key and api_secret. docs
- Data add-ons: ? (none found)
- Brokerage: headline Rs 20 per executed order on equity/F&O; delivery 0.1% or Rs 20 (lower, min Rs 5), intraday 0.05% or Rs 20, futures 0.05% or Rs 20, options Rs 20; Rs 0 account opening; dealing desk Rs 50 + GST. pricing

Auth

- POST `/api-gw/oauth/individual-token-v2` with password, twoFa, twoFaTyp (otp or totp); header `Bearer <api_key>:<access_token>`. docs
- Token valid 24 hours; expired returns 401. TOTP supported, so scripted login is possible (medium confidence).
- Static IP required: one primary and one backup per app; unregistered-IP orders rejected from 1 Apr 2026. blog
- Multi-user: ? (flow is for own account only)

Live data

- WebSocket: 3000 instruments per connection, 5 connections per user. limits
- L1, L2 depth, option greeks, OI, OHLC (1M/5M/30M); binary, SDK parser needed. SDKs
- Indices covered (OpenAlgo). REST quotes: ?. Depth level count: ?. Tick-by-tick: ?

Historical

- Minute-interval OHLCV endpoint with OI change for derivatives; free. docs
- Intraday depth about 30 days (2024 forum answer, low confidence). Daily depth, expired F&O, continuous futures: ?

Trading

- Market, limit, stoplimit; bracket, cover, OCO, GTT. GTT
- Basket margin calculator (no basket placement endpoint described). docs
- Multi-leg options: ?. Webhooks: none described; WebSocket order/position/trade events in TypeScript and C# SDKs only.
- Segments: equity, F&O, currency, MCX commodities. hours

Limits

- 100 req/s data endpoints; 10 req/s and 400 req/min other authenticated; OTP 3 req/s per IP; 429 on breach. limits
- Orders: 10 req/s. Daily cap: none listed (API page says unlimited). API

Dev experience and support

- WebSocket SDKs only: Java, TypeScript, Python, C#, C# .NET 6. No paper trading; separate Demo Platform.
- Docs cover errors and backoff well; no changelog (docs app version 0.0.26). GitHub activity: ?
- Support covers API bugs, not strategy coding. Outages, community size: ?

- Data usable only with CubePlus.

Community (OpenAlgo)

- Praise: integration done 2025-06; WebSocket feed covers LTP, OHLC, depth, indices.
- Complaints: no client keepalive, FD leaks (fixed), lock held on blocking subscribe (open), zero-price candles and LTP=0 bugs.

Conflicts

- Expired stream token close code 4001 (docs) vs 401 (FAQ).
- OHLC limit 50 req/s (API page) vs 100 req/s (docs).
- Static IP scope and error code: all requests vs orders only from 1 Apr 2026; 401 vs 403.

Flags

- 12 of 43 core fields are ? (28%).

Spot-check 2026-11-03

- CONFIRMED auth.method (recheck): first-pass was a misread; page has example header `Bearer <api_key>` and the `api_key:access_token` form in the AccessToken schema; confidence medium. page
- Brokerage (recheck): flat Rs 20 wording overstated; headline Rs 20, tiered table, dealing desk Rs 50 + GST confirmed; confidence low. pricing
- Other 10 checked fields confirmed (some sub-claims partial: 10 req/s socket figure is on tradejini.com/api, not rate-limits page).

Upstox API (upstox)

As of 2026-11-03. Source notes: (internal working notes, not published),pricing,community}.md. "?" = unknown. Full sourced data: upstox.json.

Cost and access

- Trading and data APIs free; flat Rs 10/order brokerage promo valid till 31 Dec 2026, GTT excluded (trading-api). Multi-client / third-party vendor orders reportedly Rs 20 (unverified: not on the cited page; staff, forum).
- Free sandbox and read-only Analytics token. Needs an Upstox account plus a created app. Retail app creation reported paused from 5 Jan 2026, tentative resumption 16 Jan 2026 (community staff post, 14 Jan 2026, thread); no resumption notice found as of 2026-11-03, so current status is unconfirmed; the trading-api page is silent on the pause (confidence low).
- Upstox Plus plan unlocks expired-instrument APIs, 30-level depth and 5 WebSocket connections (Plus). Plus price: not found.

Auth

- OAuth 2.0 auth-code flow; standard token regenerated daily; Analytics token valid 1 year (1-year validity unverified on cited page), read-only (authentication, overview).
- TOTP automation: unclear (customer TOTP login exists; a TOTP Login API row appears in rate limits; low confidence).
- Static IP required for orders from 1 Apr 2026: primary plus optional secondary, one change per week, each change invalidates tokens (circular).
- Multi-user: per-customer OAuth tokens; Access Token Flow (Beta) for Initiators (low confidence).

Live data (feed, quotes)

- REST: Full and OHLC quotes V3 up to 500 instruments; Option Greeks endpoint; OI and indices supported.
- WebSocket: 2 connections (5 on Plus); modes ltpc, option_greeks, full (5 depth), full_d30 (30 depth, Plus, 50 instruments). Normal caps: LTPC 5000, Greeks 3000, Full 2000 per connection (spot-check: 'per connection' wording not on cited page). Tick-by-tick: ?

Historical (docs)

- 1-minute, 30-minute, daily, weekly, monthly; endpoint marked deprecated. 1-minute: last month; 30-minute: past year (page also says six months, see conflicts); daily: past year; weekly and monthly: ten years.
- Expired F&O: yes, Plus only (announcement). Continuous futures: ?

Trading (orders, GTT, webhook)

- MARKET/LIMIT/SL/SL-M; products I/D/MTF; GTT single and multi-leg with trailing SL; multi-order with auto-slicing; Margins and Charges APIs; webhooks for orders and GTT plus WebSocket updates. Multi-leg options: ? Segments/exchanges: ?

Limits (rate limits)

- Orders (shared bucket): 10/s regular, 50/s SEBI-registered; 500/min; 2000 per 30 min. Other APIs: 50/s, 500/min, 2000 per 30 min. No daily cap stated (low confidence).

Dev experience

- Python SDK (upstox-python-sdk 2.21.0); Agent Skills (Jun 2026). Sandbox covers order place/modify/cancel only, token 30 days. Announcements log active through 2026. Doc quality: ? GitHub activity: ?

Compliance

- SEBI/exchange registration only above 10 orders/s (Algo ID, X-Algo-Name header, re-registration on logic change). Redistribution/commercial terms: ? (business integration via api@upstox.com).

Reliability and support

- Outages: one user report (2025-06-02), no staff reply (thread). Support: community forum, api@upstox.com. Community size: ?

Community voice (low confidence)

- Praise: detailed API, longer-lived tokens than daily-expiry brokers (secondary article).
- Complaints: app creation reported paused in Jan 2026 (unconfirmed; Upstox's page shows creation open); Rs 20 vs Rs 10 charging dispute with Tradetron; order executed above margin; occasional lag.
- Comparisons: third-party blogs claim Plus gates premium capabilities; old Rs 1,000/2,000 monthly fee guides are outdated.

Conflicts

- Promo end date: 31 Dec 2026 (official) vs 31 Mar 2026 (forum) vs 30 Sep 2026 (third party).
- Intraday history: 1-minute final month / 30-minute one year vs both six months (same page).
- Order rate: 50/s advertised vs 10/s regular algos in docs.
- Per-order fee: Rs 10 individual vs Rs 20 multi-client.

Other features

Analytics token account GET APIs, static IP management API, Closing Auction Session support, Charges API, payout/IPO/MF APIs, Kill Switch, webhook URL security filter, Upstox Cloud (coming soon), Agent Skills, V2 WebSocket discontinued.

Spot-check 2026-11-03

- NOT-FOUND (recheck 2026-11-03, earlier CONTRADICTED withdrawn): access_cost.required_account current status. Pause sourced to the community thread; trading-api page is silent, so silence is not contradiction. Confidence kept low.
- Unsupported sub-clauses (flagged, headline confirmed): Rs 20 multi-client fee, Analytics token 1-year validity, "per connection" WebSocket wording.
- 11 other fields CONFIRMED; confidence unchanged.

6. Community claims, checked

Community "X is better than Y" claims, broken into features and judged

Sources: the `community` sections of `profiles/*.json` (comparison_claims, plus praise and complaints that name another broker), checked against (internal working notes, not published) and `scores.json`. As of 2026-11-05 (scores and the sandbox, TOTP and Dhan-latency lines refreshed after the 2026-11-05 verification run; other verdicts as of 2026-11-03), regenerated after the third ?-refetch and the contradiction rechecks (internal working notes, not published); see "Recheck contradictions" at the end. Rechecked after the stoxkart, hdfcsky, hdfcir and sharekhan grade corrections: Stoxkart dropped out of every top 5 (algo 60.3 to 53.0), but no score or ranking quoted below changed. Rechecked again on 2026-11-03 after the HDFC InvestRight historical regrade (expired F&O and continuous futures back to ❌; intraday depth, daily depth and history cost now `info`; backtesting 34.0 to 30.9, still last) and the 5paisa recheck (TOTP automation ✅ to ⚠️, depth levels ? to ✅ at 20 levels): no score or ranking quoted below changed. The Upstox app-creation status check is noted in the recheck table. Rechecked again on 2026-11-03 after the refetch-2 round (internal working notes, not published): Angel gained sourced grades (live OI, historical intervals and depth, postbacks ✅; basket ❌), algo 47.1 to 53.9 (rank 16 to 10); Samco gained option chain and position conversion ✅, algo 53.1 to 54.9; Kotak `limits.daily_caps` went ✅ to ? (no source states a cap either way), algo 53.6 to 51.8; Sharekhan rose slightly (34.6 to 35.9, still last). Claims 7 and 13 are updated below; no verdict changed and no other quoted score changed. Rechecked again on 2026-11-03 after the Kite charges and docs fetch and the Dhan Exit All fetch: Kite `live_data.tick_by_tick`, `live_data.greeks`, `trading.basket` and `other.option_chain_api` went ? to ❌ and `other.brokerage_per_order` went ? to `info`; Kite algo 58.2 to 55.0 (rank 5 to 7), backtesting 66.5 to 66.1, app building 61.9 to 60.9, general 60.3 to 59.0. Dhan's Exit All grade stays ✅ with a new endpoint source and its scores did not change. Claims 5, 13, 20 and 21 are updated below; no verdict changed. Rechecked again on 2026-11-03 after the Kite basket, exit-all, brokerage and CORS fetch: `trading.basket` went ❌ to ⚠️ (browser-only offsite basket and Publisher plugin, no REST endpoint), `other.exit_all_kill_switch` went ? to ❌ (medium confidence), `other.browser_cors` stays ❌ (re-confirmed) and `other.brokerage_per_order` stays `info` (API-specific schedule and Connect yearly price still not found); Kite algo 55.0 to 56.2 (rank 7 to 6, Motilal now 7th), backtesting 66.1 to 66.0, app building 60.9 to 61.4, general 59.0 to 59.5. Claims 5, 13, 20 and 21 are updated again below; no verdict changed.

How to read the verdicts:

- **Supported**: the graded data agrees.
- **Partly supported**: some sub-claims hold and others do not.
- **Outdated**: it was true when posted but the data has since changed.
- **Contradicted**: the graded data says otherwise.
- **Unverified**: it is self-reported or vendor latency with no benchmark, so our data cannot settle it.

Feature ids refer to rows in `feature_leaders.md`.

Summary

#	Claim	Verdict	Head-to-head
1	Dhan is faster (lower latency) than Kite	Unverified	kite-vs-dhan
2	Dhan's rate limits are more liberal than Kite's	Outdated (orders); partly supported (daily/data caps)	kite-vs-dhan
3	Kite has the most comprehensive docs (vs Dhan)	Supported	kite-vs-dhan
4	Kite hits rate limits / throttles in volatility	Unverified; not Kite-specific	kite-vs-dhan
5	Moving Kite to FYERS: free, decent docs, slightly lower latency, worse WebSocket stability	Partly supported	kite-vs-fyers
6	Angel SmartAPI is free with reasonable limits (vs Kite)	Supported	kite-vs-angel
7	Angel SmartAPI is the strongest free broker API	Contradicted	angel-vs-upstox

#	Claim	Verdict	Head-to-head
8	Groww includes live data while Zerodha charges Rs 500/month	Contradicted	kite-vs-groww
9	Groww Rs 499 vs Zerodha Rs 2,000 for API	Outdated	kite-vs-groww
10	Kite MCP works while Groww MCP fails	Unverified (single user); evidence gap on Kite	kite-vs-groww
11	Groww and Finvasia (Shoonya) are faster than Dhan	Unverified; available claims point the other way	dhan-vs-groww
12	Kotak API is free while Kite costs Rs 2,000/month	Supported in direction, number outdated	kite-vs-kotak
13	Kotak is the cheaper alternative with less community evidence	Supported	kite-vs-kotak
14	Dhan stands out for speed and webhook automation	Supported (webhooks); unverified (speed)	dhan-vs-upstox
15	Dhan Data API lags Upstox by 5-6 s with price mismatches	Partly supported (one thread reports a lag; no figure, no Dhan acknowledgement)	dhan-vs-upstox
16	Breeze over Kite because Kite is not in budget	Supported	kite-vs-breeze
17	Breeze is slower than discount brokers	Unverified	kite-vs-breeze
18	5paisa stayed up in the Cloudflare outage, unlike Zerodha and Groww	Partly supported	none (not an API feature claim)
19	Shoonya login is one request, unlike Zerodha's flow	Outdated (2022 claim, now outside the evidence window)	none
20	Kotak: instant pledge margin and Rs 10 vs Zerodha Rs 20 per order	Out of API scope; brokerage part supported	kite-vs-kotak
21	Zerodha "way better" than mStock; mStock below Zerodha, FYERS, Angel	Out of API scope (consumer app)	none
22	Moving Kite to Nubra: flat single-digit-ms latency	Out of scope (Nubra not in the provider set); unverified	none
23	Upstox Rs 2,000 / Rs 1,000 API fees (older guides)	Outdated	kite-vs-upstox

Claims in detail

1. Dhan is faster than Kite

Sources: TradingQnA latency thread, madefortrade staff claim, Reddit, AlgoMatrix

- `other.latency_claims`: Dhan says 90% of orders execute in under 25 ms; Dhan staff say about 40% complete in under 10 ms and about 90% in under 20 ms. These are vendor figures, and a commenter notes they are not per-user. For Kite, one Reddit user reports 40-60 ms order-to-ack.
- Architecture: a single commenter says Kite is "less suited to latency-critical strategies". This is opinion.
- **Verdict: Unverified.** No independent benchmark exists for either broker. The lower numbers are Dhan's own marketing figures. Dhan's own Data API was reported 5-6 s behind Upstox (claim 15), so a fast order path does not mean fast data.

2. Dhan's rate limits are the most liberal in the industry

Source: AlgoMatrix, Oct 2025

- `limits.orders_per_second`: Dhan's limit was 25 OPS until Mar 2026 and is now 10. Kite allows 10 OPS. **Equal now.**
- `limits.daily_caps`: Dhan allows 7,000 orders a day; Kite allows 5,000 a day and 400 a minute. **Dhan higher.**

- `limits.rest_rate_limits`: both allow 1 req/s for quotes. For data, Dhan allows 5/s and 100,000 a day, while Kite's historical endpoint allows 3/s. **Dhan slightly higher.**
- **Verdict: Outdated on orders, partly supported on daily and data caps.** Upstox has no stated daily cap and gives SEBI-registered algos 50 OPS, so "most liberal in industry" no longer holds even before counting Kite.

3. Kite has the most comprehensive docs

Source: AlgoMatrix

- `dev_experience.doc_quality`: Kite ✅, Dhan ⚠️ (gaps include postback retry and missing futures chain, conversion and charges docs).
- `dev_experience.official_sdks`: Kite has SDKs in 6 languages; Dhan has Python and TypeScript.
- `dev_experience.sandbox_paper`: Kite ? (Kite's agent-setup file describes a shared-credential demo at sandbox.kite.trade, but Zerodha's Kite Connect FAQ says it offers no sandbox; regraded 2026-11-05), Dhan ⚠️.
- **Verdict: Supported against Dhan.** Across all 20 providers, FYERS also has docs graded ✅ with a fresher changelog, so "most comprehensive" is shared, not unique.

4. Kite throttles or hits rate limits during volatility

Sources: Reddit, AlgoMatrix

- `limits.orders_per_second`: Kite's 10 OPS is the SEBI retail threshold that most brokers apply. A Reddit claim of 3 req/s conflicts with Kite's official 10/s (see the Kite profile flags).
- **Verdict: Unverified, and not specific to Kite.** Anyone running several strategies on one account hits the same 10 OPS ceiling at Dhan, FYERS, Groww or Upstox (unless the algo is registered).

5. Kite to FYERS: free, decent docs, 30-35 ms latency, worse WebSocket stability

Source: Reddit

- Cost (`access_cost.api_fee`): FYERS Rs 0 ✅ vs Kite Rs 500/month ⚠️. **Supported.**
- Docs (`dev_experience.doc_quality`): both ✅. **Supported** ("decent").
- Latency (`other.latency_claims`): 30-35 ms vs 40-60 ms. Both figures are self-reported by single users. **Unverified.**
- WebSocket stability: FYERS profile complaints include drops and v3 data issues (FYERS community). No Kite WebSocket complaint was collected. **Plausible but anecdotal.**
- Not mentioned in the claim but decisive: FYERS has official TOTP login (Kite ❌), native multi-leg orders, and Standard-plan limits of 100 streamed symbols and 5,000 data requests a day.
- **Verdict: Partly supported.** The scores agree on direction (FYERS 80.2 vs Kite 55.4 for algo trading).

6. Angel SmartAPI is free and its rate limits are reasonable

Source: Reddit

- `access_cost.api_fee` and `access_cost.free_tier`: Angel ✅ (Rs 0 including data) vs Kite ⚠️.
- `limits.orders_per_second`: Angel allows 9 OPS combined, Kite 10. That is reasonable but not better.
- **Verdict: Supported.**

7. Angel SmartAPI is the strongest free broker API

Source: Multibagg

- Among free-with-data APIs, FYERS (80.2) and Upstox (76.1) rank far above Angel (53.9, up from 47.1 after the refetch-2 regrade) for algo trading. Upstox fell from 78.9 after the 2026-11-03 regrade (SDK breadth ⚠️, outages ?, redistribution ?) and recovered part of that on 2026-11-05, when its TOTP login was regraded to ✅

(now 76.1), but the gap to Angel is still large. The Upstox and FYERS head-to-heads show Angel at ? or ⚠️ on order stream, kill switch, slicing, market protection, option chain and SDK breadth. The refetch-2 round added Angel postbacks ✅ and live OI ✅ but basket ❌; it is still 10th of 20 for algo trading.
- `compliance.redistribution_commercial_terms`: Angel ❌ (personal, non-commercial use only).
- **Verdict: Contradicted.** Some of Angel's low score comes from missing evidence (29 known features, up from 23), but its confirmed facts are also weaker.

8. Groww includes live data while Zerodha charges Rs 500/month

Source: AlgoTest (the article contradicts itself in its summary)

- `access_cost.api_fee`: Groww costs Rs 499/month plus taxes (or Rs 4,999/year). `access_cost.free_tier`: Groww's free trial excludes live data and backtesting.
- **Verdict: Contradicted.** Live data costs about the same at both brokers.

9. Groww Rs 499 vs Zerodha Rs 2,000

Source: TradingQnA

- Kite now costs Rs 500/month per app on the Connect plan. The free Personal plan has no data.
- **Verdict: Outdated.**

10. Kite MCP works while Groww MCP fails

Source: TradingQnA

- `other.mcp_ai_tooling`: Groww ⚠️ (community MCP only). Kite ? (only an agent-setup sandbox prompt page was found, and no official MCP server was found in the notes).
- **Verdict: Unverified, from a single user. It also exposes an evidence gap:** the user implies a working Kite MCP, but the research did not capture one. Re-check this field for Kite.

11. Groww and Finvasia are faster than Dhan

Source: TradingQnA, relaying openbroker.in

- `other.latency_claims`: Groww's figure is a 65 ms average it reported itself. Dhan's vendor claim is under 25 ms for 90% of orders. Shoonya has no figure.
- **Verdict: Unverified, and the available vendor numbers point the other way.**

12. Kotak API is free while Kite costs Rs 2,000/month

Source: Multibagg

- `access_cost.api_fee`: Kotak Rs 0 ✅. Kite Rs 500 (not Rs 2,000).
- **Verdict: Supported in direction, but the number is outdated.**

13. Kotak is the cheaper alternative with less community evidence

Source: Multibagg

- Kotak has 28 known features vs Kite's 41 (general profile; Kite gained one when exit-all was graded ❌ on 2026-11-03); it lost one when `limits.daily_caps` was regraded ✅ to ? (no source states a cap either way). Rate limits are unpublished, historical data is officially "unavailable", and the official GitHub repo was archived in Sep 2026.
- **Verdict: Supported.**

14. Dhan stands out for speed and webhook automation

Source: AlgoTest (search snippet)

- `trading.postbacks_webhooks` ✅ and `other.alerts_api` ✅ (conditional trigger orders on indicators).
- Speed: see claim 1.
- **Verdict: Supported for webhooks and automation; speed is unverified.**

15. Dhan Data API lags Upstox by 5-6 s, with price discrepancies

Source: madefortrade

- `reliability_support.outages`: Dhan ⚠️ also lists DH-905 and HTTP 500 errors on history endpoints.
- **Verdict: Partly supported.** One thread reports lag versus Upstox ("Data Latency: There is a noticeable lag in the data feed."). It gives no 5-6 s figure and does not show Dhan acknowledging it (2026-11-05 check, row P-116). No fix was shown.

16. Breeze chosen over Kite on cost

Source: TradingQnA

- `access_cost.api_fee`: Breeze Rs 0 including historical and WebSocket data, vs Kite Rs 500/month.
- **Verdict: Supported.** On features, Kite still scores higher on every use case (see the head-to-head).

17. Breeze is slower than discount brokers

Source: Multibagg

- `other.latency_claims`: Breeze has no figure.
- **Verdict: Unverified.**

18. 5paisa stayed up in the Cloudflare outage while Zerodha and Groww went down

Source: 5paisa blog

- `reliability_support.outages`: Kite lists a 5 Dec 2025 Cloudflare outage, which is consistent with the claim. 5paisa's own uptime is self-reported.
- **Verdict: Partly supported.** The Zerodha half is confirmed; the 5paisa half is a vendor claim.

19. Shoonya login is a single request, unlike Zerodha's

Source: TradingQnA, 2022

- `auth.method`: Shoonya now uses a hosted Noren login that returns a short-lived auth code, then a server-side GenAcsTok exchange with a SHA256(client_id + secret_code + auth_code) checksum. That is the same shape as Kite. The "OAuth 2.0" label and the checksum are on the quick-start page, not the flow-overview page cited earlier.
- `community.comparison_claims` for Shoonya is now ?: the only claims found date from 2022, outside the evidence window.
- **Verdict: Outdated.**

20. Kotak: instant pledge margin and Rs 10 vs Zerodha's Rs 20 per order

Source: TradingQnA

- Pledge timing is a broker-operations feature, not an API feature. `other.brokerage_per_order`: Kotak charges Rs 0 per API order on Trade Free plans. Zerodha's general rates are 0.03% or Rs 20 per executed order

(whichever is lower) for intraday equity and futures and a flat Rs 20 for options; no API-specific schedule was found, so whether these rates apply to API orders is unverified (charges); re-checked 2026-11-03, still no API-specific line.
- **Verdict: Out of API scope; the brokerage direction is supported.**

21. Zerodha is "way better" than mStock

Sources: TradingQnA, Techjockey

- Both reviews are about the consumer app. On the API, the general scores are Kite 58.0 and mStock 50.0, which is consistent in direction.
- **Verdict: Out of scope.** No head-to-head was written.

22. Kite to Nubra: flat single-digit-ms latency

Source: Reddit

- Nubra is not among the 20 providers.
- **Verdict: Out of scope and self-reported.**

23. Upstox charges Rs 2,000 or Rs 1,000 a month

Source: CernoQuant

- `access_cost.api_fee`: Upstox is Rs 0 ✅.
- **Verdict: Outdated.**

Pairs the claims point to

The required head-to-heads are kite-vs-dhan, kite-vs-upstox, dhan-vs-fyers and angel-vs-upstox. The claims added kite-vs-fyers (5), kite-vs-angel (6), kite-vs-groww (8-10), kite-vs-kotak (12-13, 20), dhan-vs-upstox (14-15), dhan-vs-groww (11) and kite-vs-breeze (16-17). Claims 18, 19, 21 and 22 concern uptime marketing, an outdated login flow, consumer apps or an out-of-scope broker, so they got no head-to-head.

Recheck contradictions

The rechecks in (internal working notes, not published) re-fetched every field the first spot-check marked CONTRADICTED. What they found:

Provider	Field	Recheck verdict	What it means for the claims above
groww	`auth.token_expiry` (TOTP clause)	Contradicted on the cited curl page, but supported by the python-sdk page. Two official Groww pages conflict: curl says TOTP "Requires daily approval", python-sdk says "No Expiry".	The profile now states the conflict. No claim above depends on it. recheck
upstox	`access_cost.required_account` (retail app-creation pause)	The first-pass "contradicted" does not hold. The pause from 5 Jan 2026 is reported in community posts (9-14 Jan 2026). The later status check (upstox-app-creation-check) found that these posters show no staff role, and that users said on 19-20 Jan 2026 that app creation works again. No staff post or official page confirms the pause or its end, so the status is unclear. Decision: Upstox stays ⚠️ (no official notice that the Jan 2026 pause ended; user posts on 19-20 Jan 2026 say creation works).	The row `auth.api_app_creation_open_to_retail` keeps Upstox at ⚠️ per that decision. Claims 2, 15 and 23 are unaffected, but anyone moving to Upstox should confirm they can create an app. recheck

Provider	Field	Recheck verdict	What it means for the claims above
nuvama	`auth.token_expiry`	Contradicted (cutoff time only). The page says the client token is invalidated after 8 hours of inactivity or "at 12:30 AM every day", not at midnight. The 24-hour vendor session is confirmed.	No claim above covers Nuvama. recheck
shoonya	`access_cost.api_fee`	Confirmed. The first pass misattributed the "API charges: ₹0" quote to Shoonya's pricing page; it is on the AlgoTest page. Shoonya's own pricing page lists no API fee, and its terms reserve the right to charge.	Shoonya's Rs 0 fee rests on a secondary source. recheck
stoxkart	`live_data.ws_instrument_limit`	Confirmed. The FAQ says "There is no limitation for subscription to one WebSocket connection". The subscribe message carries at most 20 scrip IDs (a message-size limit, not a connection cap).	No claim above covers Stoxkart. recheck
tradejini	`auth.method`	Confirmed. The first pass misread it: the page uses `Bearer <api_key>:<access_token>` for later calls.	None. recheck
tradejini	brokerage	Partly contradicted. The flat "Rs 20 on all equity and F&O" headline is qualified in the table: delivery 0.1% or Rs 20, intraday and futures 0.05% or Rs 20 (whichever is lower), options Rs 20 per order.	None. recheck
fivepaisa	`dev_experience.github_activity`, `reliability_support.community_size`	Contradicted on open issues only: 135 open on the py5paisa issues page, not 147. The 11 fields not found on their cited pages were re-checked on xstream.5paisa.com, forum.5paisa.com and staff posts (results): 7 now have a correct source (several with conflicts that the profile now states: 20 vs level-5 depth, the market-order ban vs a listed SL-M type, 600/50 per min vs 25 req/s and 1,500 orders/min), 3 have no official source (TOTP scriptability, basket CRUD, the outage incident), and 1 is contradicted (the Rs 0 banner is for API subscriptions, not brokerage, which is a flat Rs 20 per order). TOTP automation fell to ⚠️ and depth rose to ✅.	Claim 18 (5paisa uptime in the Cloudflare outage) is still a company claim. The outage grade stays ⚠️ on a staff ~99.9% uptime claim; the unsourced incident clause was dropped. recheck

7. Head-to-head comparisons

Angel One SmartAPI vs Upstox API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/angel.json`, `profiles/upstox.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Upstox wins on every use case. Angel SmartAPI's edges are that everything is free with no paid tier gating depth or connections, and that its login is automatable with TOTP in the official SDK sample (✅; Upstox is also ✅ since the 2026-11-05 check found its documented PIN and TOTP token endpoint). The refetch-2 round (2026-11-03) found Angel's official docs pages and added live OI ✅, the full candle-interval list ✅, per-request history caps, order postbacks ✅ and an explicit basket ❌, lifting Angel from 47.1 to 53.9 for algo trading (#16 to #10). Some of Angel's lower score still comes from unknowns (29 graded features have evidence, up from 23), but its confirmed facts are also weaker: personal, non-commercial-use-only terms (❌), 9 OPS, and community reports of dropped ticks at large token counts and swapped depth fields. Both now have only a Python SDK confirmed. Upstox's SEBI algo-fit grade stays ✅ (registration flow documented). Community posts (9-14 Jan 2026) report that Upstox paused new retail API app creation from 5 Jan 2026, with a tentative resumption on 16 Jan. The 2026-11-03 status check (internal working notes, not published) found that none of these posters shows a staff role, and that users reported on 19-20 Jan 2026 that app creation works again; no Upstox staff post or official page confirms either the pause or its end. Decision: `auth.api_app_creation_open_to_retail` stays ⚠️ for Upstox, because no official notice says the Jan 2026 pause ended, while user posts on 19-20 Jan 2026 say app creation works. The first-pass reading that Upstox's own page contradicted the pause did not hold: that page is silent on it. Angel's app-creation row is ? (no evidence either way).

Scores

Use case	angel	upstox
Algo (live)	53.9 (#10)	76.1 (#2)
Backtesting	58.4 (#6)	69.2 (#2)
App building	48.4 (#14)	64.9 (#2)
General	50.5 (#10)	71.5 (#2)

Known (non-?) graded features: angel 29, upstox 39 of 50 and 50 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	upstox	Upstox 76.1 vs Angel 53.9. Upstox documents a kill switch, Exit All, order stream, market protection, slicing and 30-level depth (Plus); none of these were found for Angel. Both now have order postbacks (✅). Both automate TOTP login (✅). Check that Upstox app creation is open before you commit.
Backtesting	upstox	Upstox 69.2 vs Angel 58.4. Both are free. Angel now documents 1-minute to 1-day intervals and per-request caps (1m 30 days, ONE_DAY 2000 days) but not total look-back; Upstox lookback is documented but inconsistent, and only Upstox has expired F&O data (Plus).
App building	upstox	Upstox 64.9 vs Angel 48.4. Angel terms forbid commercial use and redistribution. Upstox has MCP and Agent Skills; its redistribution terms are now ? (terms page 404).
General	upstox	Upstox 71.5 vs Angel 50.5. The claim that SmartAPI is "the strongest free API option" is not supported against Upstox or FYERS.

What angel has that upstox lacks

Feature	angel	upstox
`reliability_support.outages`	⚠️ Repeated incidents: SmartAPI internal server error outage (date not shown, sessions invalidated); Cloudflare outage 5 Dec 2025 hit trading platforms; master contracts en… src	? No status page found. One user-reported API outage (Jun 2025, no staff reply) plus unanswered execution complaints (Feb 2026). Not enough to grade as repeated incidents… [src](https://community.upstox.com/t/upstox-api-and-sensibull-not-working/9313 ; https://community.upstox.com/t/complaint-regarding-system-failure-on-3-february-2026/14094)
`other.streaming_protocol`	⚠️ WebSocket with binary SNAP_QUOTE frames parsed by official SDK; wire schema not documented (parsing bug reported) src	? Wire format of the market feed not stated on the feed docs reviewed (no protobuf/JSON statement found). src

Rows where upstox is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What upstox has that angel lacks

Feature	upstox	angel
`auth.api_app_creation_open_to_retail`	⚠️ Creating an app is the documented route and nominally open to retail, but retail app creation was reported paused from 5 Jan 2026 (staff post); no resumption notice foun… src	? Notes do not say how a retail client creates a SmartAPI app/key or whether any gate applies (only that access is free to all customers).
`live_data.rest_quotes`	✅ Full Market Quotes V3 and OHLC V3: up to 500 instruments per request; separate Option Greeks quote endpoint. src	? Market quote and getLtpData endpoints exist at 10 req/s; max instruments per call not found src
`historical.expired_fno`	⚠️ Yes: Get Expiries, Get Expired Option Contracts, Get Expired Future Contracts, Get Expired Historical Candle Data. Requires the paid Upstox Plus plan. src	? Historical covers NSE Equity and NFO Futures; expired contracts not stated src
`trading.basket`	✅ Multi-order place/cancel with auto-slicing (documented in rate-limit and multi-order pages); Basket Orders advertised on trading-api page. [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/rate-limiting/)	❌ No basket-order API in docs navigation (absence evidence: only Orders, GTT, Margin Calculator etc.) src
`trading.multi_leg_options`	⚠️ Partial: GTT MULTIPLE is a multi-leg order type (FO/OCO), and multi-order placement exists. No native option-strategy (spread/straddle) order API stated. [src] (http://upstox.com/developer/api-documentation/get-gtt-order-details/ ; https://upstox.com/trading-api/)	? Not found src
`dev_experience.sandbox_paper`	⚠️ Free sandbox, no time limit, separate sandbox app with 30-day token. Supports place, modify and cancel order APIs (V1 and V3) and multi-order only; not usable for live. [src] (http://upstox.com/developer/api-documentation/sandbox/ ; https://upstox.com/developer/api-documentation/api-overview/)	? Not found in SDK README or docs src
`other.option_chain_api`	⚠️ Put/Call Option Chain endpoint exists (listed in docs index) and returns strike-wise greeks and premium. OI and IV are separate endpoints, so not in one call. Title-leve… src	? No option chain endpoint found; changelog 1.4.8 lists Greeks, put-call ratio and top gainers/losers APIs but no option chain; not announced src
`other.futures_chain_api`	⚠️ Get Expiries endpoint lists expiry dates for an underlying. No single futures-chain endpoint returning contracts across expiries found in the docs index. src	? Not found src
`other.order_slicing`	✅ Place Multi Order with auto-slicing; V3 place order supports slicing. Freeze-quantity wording for F&O not found. [src](https://upstox.com/trading-api/ ; https://upstox.com/developer/api-documentation/v3/place-order)	? Not found src
`other.exit_all_kill_switch`	✅ Exit All Positions endpoint, Kill Switch Status and Kill Switch update endpoints. [src] (https://upstox.com/developer/api-documentation/exit-all-positions ; https://upstox.com/developer/api-documentation/get-kill-switch)	? Not found src
`other.order_position_stream`	✅ Order updates on WebSocket (payload identical to webhook) and a Portfolio Stream Feed API listed in the docs index. Position-specific stream content not confirmed. [src] (http://upstox.com/developer/api-documentation/webhook/ ; https://upstox.com/developer/api-documentation/get-portfolio-stream-feed)	? Not found; order postbacks also absent src
`other.market_price`	✅ Market price protection parameter on Market and SL-M orders (announcement 'Market Protection for Market and Stoploss Market Orders' in docs index); default -1 (automatic…	? Not found src

Feature	upstox	angel
`_protection`	src	
`other.position_conversion`	✅ Convert Positions API switches open position margin product between intraday, delivery and MTF (listed in docs index with example code). Restrictions not checked. src	? Not found src
`other.closing_auction_session`	✅ CAS support announced Aug 1 2026. Full Market Quotes V3 and full/full_d30 feeds add closing-auction values (indicative price, quantity, imbalance, reference price, CAS e… [src](https://upstox.com/developer/api-documentation/announcements/market-quote-v3-full-quotes/ ; https://upstox.com/developer/api-documentation/announcements/closing-auction-session)	? Not found src
`other.mcp_ai_tooling`	✅ Official: Agent Skills (launched Jun 6 2026, built on upstox-python-sdk), MCP integration page, Claude plugin marketplace, agent quickstart. [src](https://upstox.com/developer/api-documentation/announcements/agent-skills-launch ; https://upstox.com/developer/api-documentation/mcp-integration)	? No official MCP or AI tooling found src

Now level after the refetch-2 regrade (both ✅)

Feature	angel	upstox
`live_data.oi`	✅ Live open interest returned per symbol in FULL quote mode (opnInterest); OI Buildup and PCR APIs are NSE only src	✅ Open interest in Full Market Quotes V3; previous_oi added for F&O. [src](http://upstox.com/developer/api-documentation/market-quote/ ; http://upstox.com/developer/api-documentation/announcements/market-quote-v3-full-quotes/)
`trading.postbacks_webhooks`	✅ Postback URL set at API key creation (HTTPS 443): real-time order updates only; AMO notifications sent at 9:00 AM src	✅ POST webhook URL set at app registration (no auth, must return 2XX) for order updates (default on) and GTT updates (opt-in). Payload identical to WebSocket order updates. src

Same feature, different strength (both have it, grades differ)

Feature	angel	upstox
`access_cost.data_addons`	✅ No add-ons stated; all listed APIs described as free src	⚠️ Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found. [src](http://upstox.com/developer/api-documentation/announcements/websocket-plus/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`live_data.depth_levels`	⚠️ Best-5 bid/ask fields in SNAP_QUOTE mode (inferred from issue #71 title; no page states a level count, unverified); third-party connector claims Depth 20 (unverified) src	✅ 30 levels in full_d30 mode (Upstox Plus plan). Standard full mode gives 5 levels. No 20-level mode documented. src
`live_data.indices`	⚠️ Only historical index candles documented ('past data of the indices'); no live index feed found in Market Data docs src	✅ Index keys on feed (NSE_INDEX/Nifty Bank sample, NSE_INDEX/India VIX) and global indices. src
`trading.margin_calculator`	⚠️ Advertised as a '50-position Margin Calculator API' on Angel One's SmartAPI marketing page; endpoint not in SDK README (changelog 1.4.8 lists only a brokerage calculator… src	✅ Margins API checks margin requirements for a trade; Charges API for brokerage, taxes, STT. Basket margin not stated. [src](http://upstox.com/developer/api-documentation/api-overview/ ; https://upstox.com/developer/api-documentation/margins)
`compliance.sebi_algo_fit`	⚠️ Static IP, TOPS 10 OPS and exchange algo-ID framework documented; open question on client-hosted black-box algo needing empanelment unanswered (TradingQnA, 14 Sep 2026) src	✅ Registration flow documented: algos above 10 orders/sec need SEBI/exchange registration and an Algo ID entered in Algo Apps settings; re-registration on logic change; X-… [src](http://upstox.com/developer/api-documentation/announcements/algo-trading-circular/ ; https://upstox.com/trading-api/)
`other.mtf_via_api`	⚠️ MTF holdings visible in API data but hard to identify (GitHub issue #73, Sep 2026); MTF order placement not documented src	✅ Product type MTF accepted on place order; 'MTF Product Support in Order Placement API' announcement; Convert Positions can switch to MTF. [src](http://upstox.com/developer/api-documentation/place-order/ ; https://upstox.com/developer/api-documentation/announcements/mtf-support)
`other.charges_`	⚠️ Brokerage Calculator API named in changelog 1.4.8; endpoint details not retrieved	✅ Charges API calculates brokerage, taxes, STT and transaction charges for an order before trading. src

Feature	angel	upstox
brokerage_api	src	

Same feature, descriptive values (limits, auth, history depth)

Feature	angel	upstox
access_cost.required_account	info Angel One client account with client code; API key from SmartAPI registration src	info Upstox trading account plus a created developer app. Retail app-creation pause (Jan 2026 community report) is UNCONFIRMED: the trading-api page shows app creation open and no pause notice; no resumpt… [src] (https://upstox.com/trading-api/ ; https://community.upstox.com/t/api-application-creation-pause-for-retail-clients/13477)
auth.method	info Client code + password/MPIN login (loginByPassword) returning JWT tokens (generateTokens); API key header; TOTP for 2FA src	info OAuth 2.0 authorization-code flow (customer login, single-use code exchanged server-side). Separate read-only Analytics token from the Developer Apps page; Access Token Flow (Beta) lets Initiators ge… src
auth.token_expiry	info Daily at 00:00 (midnight) for all users, old and new keys src	info Standard access token: regenerate every day. Analytics token: valid 1 year per announcement (1-year wording not on the cited API-overview page, unverified). Static-IP change invalidates existing toke… [src] (http://upstox.com/developer/api-documentation/api-overview/ ; http://upstox.com/developer/api-documentation/announcements/analytics-token/)
live_data.ws_instrument_limit	info 1000 token subscriptions per WebSocket session (forum, search snippet); SDK sample has client-side quota_limit=50 (conflict, version unknown) src	info Normal: LTPC 5000 individual / 2000 combined; Option Greeks 3000 / 2000; Full 2000 / 1500. Plus full_d30: 50 individual / 1500 combined. Table values confirmed; 'per connection' wording not on the ci… src
live_data.ws_connection_limit	info Up to 3 concurrent connections per client code (forum, search snippet) src	info 2 concurrent connections per user (Normal); 5 per user (Plus). [src] (http://upstox.com/developer/api-documentation/v3/get-market-data-feed/ ; http://upstox.com/developer/api-documentation/announcements/websocket-plus/)
historical.intraday_depth	⚠️ Per-request day caps: 1m 30, 3m 60, 5m 100, 10m 100, 15m 200, 30m 200, 1h 400; total look-back not stated (earlier blog: up to 8,000 candles per request) src	info Contradictory on the same page: 1-minute = final month before endDate (or six months per NOTE); 30-minute = past year (or six months per NOTE). Unresolved. src
historical.daily_depth	✅ ONE_DAY: up to 2000 days per request; total history depth not stated src	info Daily: past year up to endDate. Weekly: previous 10 years. Monthly: last 10 years. No max span per request stated. src
trading.order_types	info LIMIT confirmed in SDK example; MARKET and IOC prohibited for algo trading (effective date not on cited page); SL/SL-M not confirmed src	info MARKET, LIMIT, SL, SL-M. Products I (Intraday), D (Delivery), MTF. AMO and iceberg not stated. src
trading.segments_exchanges	info NSE equity and NFO futures named in intro; full segment list (BSE, MCX, CDS) not found src	? Not stated on the trading-api page; only feed keys (NSE_INDEX) and forum mentions of MCX found. Exchange appendix from the prior grade not in current notes. src
limits.rest_rate_limits	info Per second (per client code): placeOrder/modifyOrder/cancelOrder 9 combined; getLtpData 10; quote 10; getCandleData 2; getOrderBook 1; getTradeBook 1; getProfile 3; getHolding 1; generateTokens 1; lo… src	info Order place/modify/cancel/multi-order/GTT (one bucket): regular algo 10/sec, SEBI-registered algo 50/sec; both 500/min, 2000/30min. Other standard APIs (holdings, positions, funds, historical candles… src
limits.orders_per_second	info 9 OPS, cumulative across place/modify/cancel (official docs); SEBI TOPS threshold 10 OPS per exchange/segment; blog claims 20 (conflict) src	info 10 OPS is the threshold above which SEBI algo registration is required. Registered algos get 50 requests/sec on order endpoints. [src] (http://upstox.com/developer/api-documentation/announcements/algo-trading-circular/ ; http://upstox.com/developer/api-documentation/rate-limiting/)
limits.daily_caps	info No daily request cap stated; per-second, per-minute and per-hour limits only, calculated per client code (placeOrder 1000/hr,	✅ None stated explicitly: rate-limit windows are per second, per minute and per 30 minutes only. Absence on one page; verify. src

Feature	angel	upstox
	getCandleData 5000/hr); all users logged out daily at midnight src	
`reliability_support.support_channels`	info SmartAPI forum; email to SmartAPI or partner addresses referenced by users; ticket or chat not confirmed src	info Developer community forum (community.upstox.com, staff replies); business email api@upstox.com. src
`other.third_party_integrations`	info No named platforms confirmed (OpenAlgo, AlgoTest, TradingView, AmiBroker not found); third-party connector libraries exist (digdigdig3 Rust, angelone-connect PyPI) src	info Tradetron seen in customer reports only. No official integration list found; OpenAlgo, AlgoTest, TradingView, AmiBroker not mentioned in notes. src
`other.latency_claims`	info Unverified: intro page claims 10 trades per second; blog says latency reduced, no figures src	info Vendor claim, unverified: non-order API latency under 100 ms. Order throughput advertised as 50 requests/sec. src
`other.account_extras`	info EDIS API and profile (getProfile) confirmed; payout, IPO, mutual funds not confirmed src	info Payouts (get payouts, payout modes, payins, request, modify, cancel), IPO (get IPOs, apply, cancel), Mutual Fund (holdings, orders, SIPs), Trade P&L reports, Payments, User profile, Funds and Margin… [src] (https://upstox.com/developer/api-documentation/llms.txt ; https://upstox.com/developer/api-documentation/rate-limit/)

Cost

Both have Rs 0/month APIs. Angel: no paid add-ons, Rs 20 flat per executed order (third-party FAQ only; Angel's own SmartAPI page states the API is free but gives no brokerage figure). Upstox: Rs 10 per API order (promo to 31 Dec 2026), with Upstox Plus gating 30-level depth, extra connections and expired-contract data.

Item	angel	upstox
`access_cost.api_fee`	✅ 0 Rs/month (no subscription; SmartAPI 'completely FREE OF COST'); Rs 20/order brokerage figure unverified src	✅ 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page. src
`access_cost.free_tier`	✅ Full SmartAPI free: trading, market feeds (WebSocket), historical data src	✅ Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.d… src
`access_cost.data_addons`	✅ No add-ons stated; all listed APIs described as free src	⚠️ Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found. [src] (http://upstox.com/developer/api-documentation/announcements/websocket-plus/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`historical.cost`	✅ Free (0 Rs) src	✅ Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found). [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`other.brokerage_per_order`	info Rs 20 flat per executed order plus taxes (third-party FAQ) src	info Rs 10 per executed order via individual-account API (promo, valid till 31 Dec 2026 per official page; GTT excluded). Rs 20 per order for multi-client vendor API orders (… [src] (https://upstox.com/trading-api/ ; https://community.upstox.com/t/mcx-algo-trading-brokerage-mismatch/13936)

Community evidence naming the other provider

None in either profile.

Open flags from the profiles

- angel: Official docs landing page returned only a title; many fields rest on SDK README, forum posts and announcements
- angel: Several limits (WebSocket 1000 tokens, 3 connections) come from forum search snippets with unchecked quotes

- angel: Order rate conflicts: 9/s (docs), 10/s (forum, intro page), 20/s (blog, old forum table, third-party)
- angel: Static IP rules changed over time (older forum: up to 5 IPs per key, not mandatory until 1 Oct; newer: mandatory from 1 Apr 2026, one client per IP)
- angel: Separate Smart API terms and conditions not retrieved
- angel: Re-check 2026-11-03: access_cost.api_fee cites angelone.in detailed-introduction page, which states SmartAPI is free but does not state the Rs 20 per-order brokerage; the brokerage figure rests on a third-party FAQ only
- angel: Re-check 2026-11-03: auth.static_ip_required cites the 1 Apr 2026 news article, which does not say only IPv4 is supported (IPv6 status unstated there); IPv4-only claim is unsourced
- angel: Re-check 2026-11-03: rest rate limits (limits.rest_rate_limits, live_data.rest_quotes) cite smartapi.angelone.in/docs/RateLimit, which returned only its page title on fetch; values unverified against the cited page
- angel: Re-check 2026-11-03: live_data.depth_levels (5 levels) cites the smartapi-python issues list, which does not state depth levels; best_5 field naming in issue #71 is indirect support only
- angel: Spot-check 2026-11-03: unverified on cited pages: depth_levels (5 levels), Rs 20 per-order brokerage, 'IPv4 only'
- angel: Spot-check 2026-11-03 (confidence lowered one step, unsupported by cited page as of 2026-11-03): api_fee Rs 20 brokerage; static_ip_required 'IPv4 only'; multi_user '1 API key for non-registered algos'; order_types 1 Apr 2026 date for Market/IOC prohibition; depth_levels 5-level count
- upstox: Retail API app creation was reported paused/disabled in Jan 2026 (community staff); UNCONFIRMED and contradicted by https://upstox.com/trading-api/ (app creation shown open, 2026-11-03). Treat the pause as unconfirmed, not as a current restriction
- upstox: Rs 10/order promo end date conflicts across sources (31 Dec 2026 official; 31 Mar 2026 and 30 Sep 2026 elsewhere)
- upstox: Historical 1-minute and 30-minute depth is internally contradictory on the official page
- upstox: Rate-limit page URL variants: /rate-limiting/ cited in docs, /rate-limit/ returned 404 in one fetch while cited in another; re-verify
- upstox: Static-ip and terms-of-use doc URLs returned 404; no redistribution terms found
- upstox: 8 fields are '?': tick_by_tick, continuous_futures, multi_leg_options, segments_exchanges, doc_quality, github_activity, redistribution_commercial_terms, community_size
- upstox: Re-check 2026-11-03: cited algo-trading-circular page says standard read-only APIs (holdings, positions, funds, historical candles) are NOT restricted by static IP; the claim that Analytics-token account APIs need a registered static IP is unsupported by that page; static_ip_required confidence lowered to medium
- upstox: Spot-check 2026-11-03: 'retail app creation paused Jan 2026' is now doubtful: Upstox's own trading-api page shows a Start Building button and no pause notice; community thread only says tentative resumption 16 Jan, unconfirmed; required_account confidence lowered to low
- upstox: Spot-check 2026-11-03: unverified sub-clauses: Rs 20 multi-client fee, Analytics token 1-year validity, 'per connection' WebSocket wording
- upstox: access_cost.required_account: pause claim not on trading-api page; sourced to community thread
- upstox: access_cost.required_account: current app-creation status unconfirmed (no resumption notice found)

Dhan (DhanHQ API) vs FYERS

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/dhan.json`, `profiles/fyers.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

FYERS leads Dhan on every use case: free data, native basket (10 orders) and 2L/3L multi-leg orders, continuous futures, a futures chain, an order/trade/position stream, fresh SDKs and official MCP. Dhan wins on streaming scale on the free tier (5,000 instruments per connection vs FYERS Standard's 100 symbols in total), super orders (FYERS deprecated BO/CO in Aug 2026), Exit All, the static-IP API and its partner program.

Scores

Use case	dhan	fyers
Algo (live)	73.3 (#3)	80.2 (#1)
Backtesting	58.8 (#5)	75.9 (#1)
App building	62.9 (#3)	72.7 (#1)
General	64.3 (#3)	75.0 (#1)

Known (non-?) graded features: dhan 39, fyers 42 of 49 and 49 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	fyers (small watchlists); dhan (wide streaming or bracket orders)	FYERS 80.2 vs Dhan 73.3. FYERS Standard caps the Data Socket at 100 symbols and data at 5/s, 50/min, 5,000/day (users call it too strict). Prime lifts these. Dhan streams 5,000 per connection across 5 connections and keeps super orders with trailing SL.
Backtesting	fyers	FYERS 75.9 vs Dhan 58.8. Free history, continuous futures (cont_flag), Prime gives 5+ years intraday and 25+ years daily. FYERS expired F&O data is ⚠️: documented, but limited on the free Standard plan (daily 2 years, intraday 10 requests/day), with full depth on paid Prime; the 6 Sep 2026 add date is not on the cited page. Dhan needs the Rs 499 Data API and has unresolved DH-905 and HTTP 500 history errors.
App building	fyers (single user); dhan (multi-user platform)	FYERS 72.7 vs Dhan 62.9. FYERS SDKs updated 30 Oct 2026 and docs graded ✅. FYERS forbids sharing credentials with third parties, while Dhan documents a partner program.
General	fyers	FYERS 75.0 vs Dhan 64.3.

What dhan has that fyers lacks

Feature	dhan	fyers
`dev_experience.sandbox_paper`	⚠️ Developer Kit sandbox exists but is explicitly not a paper-trading environment and cannot make external requests src	? No sandbox or paper-trading section in the API docs index, but absence from an index is not an explicit statement, so unknown. FYERS API terms separately bar using exchange data for paper trading. src
`other.bracket_cover_super_orders`	✅ Super orders (entry, target and stop-loss legs in one request, optional trailing SL); BO and CO product types also available src	❌ CO and BO explicitly deprecated (2 Aug 2026); SL and TP now managed on open positions via Manage Positions (PATCH, null cancels); smart orders exist in order placement b… src

Feature	dhan	fyers
`other.market_price_protection`	⚠️ MPP applied automatically to API market orders from Mar 2026 (converted to limit); no MPP parameter found in orders docs src	? Not found in fetched trading docs src
`other.static_ip_management_api`	✅ Modify IP API for the whitelisted static IP, usable once every 7 days; IP setup available via API (v2.4) src	? No API or dashboard endpoint for static IP update found in docs; community describes changing via activating a new app, and IP change limited to once per calendar week src

Rows where fyers is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What fyers has that dhan lacks

Feature	fyers	dhan
`historical.continuous_futures`	✅ Continuous F&O data via cont_flag=1 on historical API src	? Historical docs do not mention continuous futures src
`trading.basket`	✅ Multi-order (basket) sync: array of up to 10 orders per call; endpoint /api/v3/multi-order/sync; 429 on order rate limit src	❌ No direct basket order API; baskets must be built by placing orders individually src
`trading.multi_leg_options`	✅ Native multi-leg orders with orderType 2L or 3L; NFO only; all legs same underlying; each leg limit (type 1) with IOC validity; INTRADAY or MARGIN product; no hedge marg… src	? No multi-leg strategy order endpoint found in orders docs (only multi-leg margin calculator, added v2.3.0, and BO/CO/super orders) src
`dev_experience.github_activity`	✅ FyersDev org: fyers-java-sdk, fyers-go-sdk, fyers-c-sdk last updated 30 Oct 2026; fyers-skills (Python) last updated 11 Jul 2026, 34 stars; fyers-api-sample-code 106 sta… src	? DhanHQ-py: 214 stars and 21 open issues at fetch time; v2.3.0 release dated 08 Oct (year not shown); last commit date not shown. Issues dated through Oct 2026 suggest th… src
`compliance.redistribution_commercial_terms`	⚠️ Redistribution of API content requires written approval from FYERS; distributing, displaying or sub-licensing to third parties prohibited; exchange data cannot be used t… src	? No redistribution or commercial-use terms found. Docs say Data API has additional charges; partner program applied via form src
`other.futures_chain_api`	✅ Futures chain endpoint returning currently available futures contracts for an underlying src	? No futures chain endpoint found; option chain and expiry list cover options underlyings only src
`other.position_conversion`	✅ Positions section covers exiting or converting open positions (product-type conversion) src	? No position conversion endpoint found in orders docs; portfolio page content not retrieved src
`other.closing_auction_session`	✅ CAS fields in Quotes (0 where CAS does not apply; indicative_price falls back to last traded price); Market Status Definitions table includes CAS states (13 Aug 2026) src	? Prev Close packet (code 6) exists; no closing auction fields documented src

Same feature, different strength (both have it, grades differ)

Feature	dhan	fyers
`access_cost.api_fee`	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src	✅ 0 Rs/month (Trading APIs have no subscription fee; FYERS Prime is per-order, see other.brokerage_per_order) src
`access_cost.free_tier`	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src	✅ Standard plan free: Trading APIs, quotes, historical and market data stated free by FYERS support; limits apply (see limits.rest_rate_limits) src
`auth.multi_user`	✅ Partner program documented: partners receive partner_id and partner_secret, serve their own users through per-user consent login, each user gets own access token and uni… src	⚠️ Partner-app auth type is documented, but API credentials may not be shared with third parties or other API clients; individual app is creator-only; commercial multi-user… src
`live_data.greeks`	⚠️ Delta, theta, gamma, vega and IV only via POST /optionchain (REST snapshot, one unique request per 3 s); not in live WebSocket feed src	✅ Live Greeks in option chain with greeks=1 (delta, gamma, theta, vega, iv per strike); Greeks also on Expired F&O data via include_greeks src
`live_data.indices`	✅ IDX_I segment (index value) documented in annexure. Caveat: DH-905 errors on IDX_I chart calls (Jun-Aug 2026) and an open GitHub issue reports NIFTY Quote API failing (O… src	⚠️ Data Socket navigation lists an 'Indices Update' sub-page, but its content was not fetched; India VIX present in option chain response; index subscription not confirmed src

Feature	dhan	fyers
`historical.cost`	⚠️ Included in Data API subscription: Rs 499/month plus taxes src	✅ Free: unlimited stock history downloads per day on the Standard plan; plan limits apply to depth, not price src
`dev_experience.official_sdks`	⚠️ Python dhanhq (PyPI; latest release v2.3.0, year not shown on page); TypeScript DhanHQ-js (26 stars, activity not verified); Java pdf-generator is not a trading SDK src	✅ Python (fyers-apiv3, v3.2.1 released 30 Oct 2026), Java (v1.1.0, MTF and GTT added), Go, C; all under FyersDev GitHub org (Java, Go, C updated 30 Oct 2026) src
`dev_experience.doc_quality`	⚠️ Endpoint docs current to API v2.5 (Feb 2026) with annexure and examples. Gaps: postback retry not documented; no futures chain, position conversion or charges endpoint f… src	✅ Sectioned API reference with per-endpoint parameters, code samples, Postman collection, sample code repo and changelog; some pages (webhook response, Data Socket sub-pag… src
`dev_experience.changelog_freshness`	⚠️ Last API release note: v2.5, 09 Feb 2026 (more than 6 months before 3 Nov 2026). Dhan staff said all API changes went live 1 Apr 2026 in a forum post src	✅ Last API update 30 Oct 2026 (Screeners APIs under /api/v3/screeners; fyers-apiv3 v3.2.1). Prior entries 16 Oct, 13 Aug, 6 Sep 2026 src
`compliance.sebi_algo_fit`	✅ Algo Registration required only above 10 OPS; Algo ID obtained by emailing apihelp@dhan.co; static IP managed via Modify IP API src	⚠️ Static IP whitelisting per app documented; SEBI algo ID and OPS threshold rules described only in FYERS community post (10 OPS threshold, unverified); effective date rep… src
`other.alerts_api`	✅ Conditional trigger orders via POST /alerts/orders: indicators (e.g. SMA_5), timeframes DATE to DAY, operators such as CROSSING_UP; one or more orders per trigger; postb… src	⚠️ Price Alerts section exists (create, read, change, delete, enable/disable); alert-triggered orders not documented src
`other.exit_all_kill_switch`	✅ Exit All API: DELETE /positions exits all active positions and cancels all open orders for the day (no body; returns status and message). Kill switch (POST /killswitch) is separate and does not exit… src	⚠️ Cancel orders in bulk (Order Management) and exit positions (Positions) are documented; no exit-all, cancel-all or kill-switch endpoint is named src
`other.order_position_stream`	⚠️ Live order-update WebSocket (wss://api-order-update.dhan.co) covers orders only; no position stream documented src	✅ General WebSocket streams real-time order, trade and position updates for the account src
`other.mtf_via_api`	✅ MTF is a productType on the orders API src	⚠️ MTF product accepted in GTT (CNC, MARGIN, MTF) and Java SDK v1.1.0 added MTF order placement; no dedicated MTF order page found src
`other.mcp_ai_tooling`	⚠️ dhan-oss/dhanhq-skills: agent skills (Agent Skills standard, not MCP) for orders, portfolio, market data and option chains; 42 stars. Official status not explicitly conf… src	✅ Official: FYERS MCP, FYERS AI Skills and FYERS GPT listed under AI Integrations; FyersDev/fyers-skills repo src

Same feature, descriptive values (limits, auth, history depth)

Feature	dhan	fyers
`access_cost.required_account`	info A Dhan account (API connects to the user's Dhan account) src	record FYERS trading account (SEBI broker INZ000008524) plus an app created in the FYERS API dashboard; order placement needs the Order Placement app permission and a static IP src
`auth.method`	info Three paths: (1) API key and secret, then consent, browser login (tokenId), consume consent for access token; (2) generateAccessToken with client ID, PIN and TOTP; (3) manual access token from Dhan W… src	record OAuth-style: Generate Auth Code (GET) then Validate Auth Code for access token (POST); subsequent requests send header app_id:access_token; own-app (creator-only login) and partner-app flows src
`auth.token_expiry`	info 24 hours from generation; expired tokens cannot be renewed (Renew Token extends an active Dhan Web token by 24 h) src	value Daily; access tokens expire at 6:30 AM IST, generate a new token after 6:30 AM. Longer-expiry tokens not supported (FYERS staff, community) src
`live_data.ws_instrument_limit`	info Up to 5000 instruments per connection; each subscribe message up to 100 instruments; implied 25,000 across 5 connections src	value Data Socket total: Standard 100 symbols, Prime 5,000 symbols (over-limit subscription not established); TBT: Standard 1 symbol, Prime 15 symbols (3 connections x 5 symbols); per-connection Data Socke… src
`live_data.ws_connection_limit`	info 5 WebSocket connections per user; opening a 6th disconnects the first with code 805 src	value 1 WebSocket instance at a time for Data Socket and General WebSocket; TBT: up to 3 connections (Prime), 50 channels per connection src

Feature	dhan	fyers
`historical.intraday_depth`	info Last 5 years of minute data; max 90 days per request src	value Standard: 1 year (from 2025); Prime: 5+ years (entire available history). Minute history available from 3 Jul 2017 src
`historical.daily_depth`	info Back to the instrument's listing (inception) src	value Standard: 5 years (from 2021); Prime: 25+ years (entire available history) src
`trading.order_types`	info LIMIT, MARKET, STOP_LOSS, STOP_LOSS_MARKET src	record Single order (sync and async) market, limit, SL, SL-M; basket up to 10 orders; multi-leg 2L/3L limit IOC; GTT single and OCO; smart orders; CO and BO deprecated 2 Aug 2026; SL/TP managed on positions… src
`trading.segments_exchanges`	info NSE_EQ, NSE_FNO, BSE_EQ, BSE_FNO, MCX_COMM, currency segments, IDX_I (index values). SDK v2.3.0 notes mention US global stocks trading src	record Documented: NSE CM, NFO, BFO (slicing), NSE equity and NFO (TBT), NFO (multi-leg). MCX order flow implied by a Mar 2026 outage report. BSE cash and CDS not confirmed src
`limits.rest_rate_limits`	info Order APIs 10/s, 250/min, 1000/hr; Data APIs 5/s, 100000/day; Quote APIs 1/s, unlimited per min/hr/day; Non-Trading 20/s; option chain one unique request per 3 s. Errors DH-904 (trading) and 805 (dat… src	value Data APIs: Standard 5 req/s, 50 req/min, 5,000 req/day; Prime 10 req/s, 500 req/min, 5,00,000 req/day. Transaction and user-info: Standard 10 req/s, 200 req/min, 1,00,000 req/day; Prime 10 req/s, 500… src
`limits.orders_per_second`	info 10 OPS (cut from 25 in Mar 2026); strategies above 10 OPS need Algo Registration src	value 10 OPS, shared across place, modify and cancel (single order docs); SEBI TOPS 10 OPS per exchange/segment (unverified against exchange circular) src
`limits.daily_caps`	info 7,000 orders per day; 25 modifications per order; Data API 100000 requests per day; up to 25 consent app IDs per user per day src	value Caps exist: 5,000 data requests/day (Standard); 1,00,000 transaction/user-info requests/day (Standard); Expired F&O intraday 10 requests/day (Standard); 50 orders per multi-order margin request; not… src
`reliability_support.support_channels`	info Email apihelp@dhan.co (algo and API help); help email referenced in forum posts; chat support (one user called it bot-like); community forum (madefortrade); GitHub issues on DhanHQ-py src	record API support portal (support.fyers.in knowledge base), FYERS community forum (fyers.in/community), GitHub issues on FyersDev repos, FYERS Product Manager replies in forum src
`other.latency_claims`	info UNVERIFIED vendor and staff claims: 90% of orders executed within 25 ms (Jun 2025 forum thread); ~40% under 10 ms and ~90% under 20 ms (Dhan staff, Apr 2025); 98% under 20 ms (AlgoMatrix blog, Mar 20… src	value Unverified user report: 30-35 ms order latency, somewhat better than a prior broker (Reddit, approx. Aug 2025); no FYERS-stated latency or uptime SLA found src
`other.account_extras`	info User Profile API (v2.2); Funds and Margin, Statement and EDIS in navigation (details not retrieved). Payout, IPO and mutual fund APIs not found src	value Account section: Profile (GET), Funds (GET), Holdings (GET, equity and MF holdings), Logout (POST), EDIS/DDPI; IPO, separate mutual fund and DP endpoints not listed src

Cost

FYERS Standard is Rs 0 for trading, quotes and history. FYERS Prime is per-order (Rs 15 per executed order) and lifts the limits; API Bridge ended 1 Apr 2026. Dhan trading APIs are Rs 0 but data costs Rs 499 (Dhan's support FAQ says monthly plus taxes; the cited pricing page states neither). F&O brokerage is about Rs 20 per order at both.

Item	dhan	fyers
`access_cost.api_fee`	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src	✅ 0 Rs/month (Trading APIs have no subscription fee; FYERS Prime is per-order, see other.brokerage_per_order) src
`access_cost.free_tier`	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src	✅ Standard plan free: Trading APIs, quotes, historical and market data stated free by FYERS support; limits apply (see limits.rest_rate_limits) src
`access_cost.data_addons`	⚠️ Data API Rs 499/month plus taxes is the paid add-on for market and historical data src	⚠️ Paid add-ons exist: API Bridge Rs 500+GST/month or Rs 3600+GST/12 months (FYERS clients only; community reports discontinued 5 Mar 2026, order placement via Bridge ended 1 Apr 2026); TrueData market-data add-on (Level 1… src
`historical.cost`	⚠️ Included in Data API subscription: Rs 499/month plus taxes src	✅ Free: unlimited stock history downloads per day on the Standard plan; plan limits apply to depth, not price src
`other.brokerage_`	info Standard rates: Rs 0 equity delivery; intraday equity Rs 20 or 0.03% of trade value, whichever is	value Futures: Rs 20 or 0.03% per executed order, whichever is lower; options: flat Rs 20 per executed order; statutory charges (STT, GST,

Item	dhan	fyers
`per_order`	lower; F&O Rs 20 per executed order. No separate API rate stated src	exchange, stamp, SEBI, DP) extra. FYERS Prime: Rs 15 per executed order, prepaid src

Community evidence naming the other provider

None in either profile.

Open flags from the profiles

- dhan: Data API (historical and live feed) paid Rs 499/month; Trading API free
- dhan: Static IP mandatory for orders, 7-day edit lock
- dhan: Recurring unresolved Data API issues in 2026 (DH-905, lag, GitHub #164)
- dhan: Latency numbers are staff/vendor claims, unverified
- dhan: Community material mixes Dhan-staff and promotional sources
- dhan: Verify-pass mismatch: cited dhanhq.co/trading-apis gives Data API Rs 499 but does not state a monthly billing period; api_fee confidence lowered to medium
- dhan: access_cost.api_fee: unsupported by cited page as of 2026-11-03 (https://dhanhq.co/trading-apis shows Rs 0 trading and Rs 499 data but no monthly period or taxes)
- dhan: access_cost.api_fee: hand-check 2026-11-03 MISMATCH on "per month" and "+ taxes" wording; Rs 0 / Rs 499 match
- dhan: other_features Exit All: endpoint page confirmed 2026-11-03 (DELETE /positions on dhanhq.co/docs/v2/portfolio/); release notes point to a conditional-trigger anchor instead, minor docs inconsistency
- fyers: Standard/Prime limits were revised recently (community: prior Standard was 10/s, 200/min, 100k/day); older sources stale
- fyers: TrueData price and attribution unverified
- fyers: Pingoru outage data from search snippets only
- fyers: SEBI algo rule effective date unconfirmed
- fyers: Prime API subscription price not in official docs
- fyers: Re-check: static IP exemption for data-only apps and weekly IP change limit are not stated on the cited create-an-app page (2026-11-03 re-check); confidence lowered to medium
- fyers: auth.static_ip_required: unsupported by cited page as of 2026-11-03 (create-an-app page says only 'one trading app (order placement, static IP required) and any number of non-trading apps (data only)'; no data-only exemption or weekly change limit stated)
- fyers: historical.expired_fno: unsupported by cited page as of 2026-11-03 (page gives no add date, depth or request caps)
- fyers: trading.order_types: CO/BO deprecation date 2 Aug 2026 not found on cited page as of 2026-11-03 (hand-check); confidence low, claim retained

Dhan (DhanHQ API) vs Groww Trading API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/dhan.json`, `profiles/groww.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

The claim that Groww is faster than Dhan is unmeasured: Groww's only figure is a 65 ms average order latency it reported itself, and Dhan's vendor claims are lower (90% under 25 ms). On features Dhan is far ahead for live trading: postback webhooks, super orders, Exit All, slicing, 20/200-level depth, a partner program and a static-IP API. Groww's strengths are Greeks via API, an option chain, FNO backtesting history from 2020 with expired contracts, and a full interval set (1 min to 1 month, now ✅). On backtesting the two are now close (58.8 vs 57.7). Both charge about Rs 499/month for data. Groww's app access is ⚠️ (keys need an active paid Trading API subscription); Dhan's is ✅. Groww's TOTP token lifetime is unresolved: the 2026-11-03 recheck confirmed that its curl page says the TOTP flow "Requires daily approval" while its Python SDK page says "No Expiry". This is a real conflict between two official Groww pages, not a misread, and re-fetching does not resolve it.

Scores

Use case	dhan	groww
Algo (live)	73.3 (#3)	54.0 (#9)
Backtesting	58.8 (#5)	57.7 (#8)
App building	62.9 (#3)	46.9 (#16)
General	64.3 (#3)	50.0 (#13)

Known (non-?) graded features: dhan 39, groww 28 of 49 and 52 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	dhan	Dhan 73.3 vs Groww 54.0.
Backtesting	dhan (score, narrow); groww (options history from 2020)	Dhan 58.8 vs Groww 57.7.
App building	dhan	Dhan 62.9 vs Groww 46.9.
General	dhan	Dhan 64.3 vs Groww 50.0.

What dhan has that groww lacks

Feature	dhan	groww
`auth.multi_user`	✅ Partner program documented: partners receive partner_id and partner_secret, serve their own users through per-user consent login, each user gets own access token and uni… src	? No evidence found src
`live_data.tick_by_tick`	✅ Described as tick-by-tick event-based data; server pings every 10 s and closes after 40 s without response src	? Feed streams LTP, index value, depth, order and position updates; tick-by-tick granularity not stated src
`dev_experience.sandbox_paper`	⚠️ Developer Kit sandbox exists but is explicitly not a paper-trading environment and cannot make external requests src	? No sandbox or paper trading found on official pages src

Feature	dhan	groww
`reliability_support.outages`	⚠️ Repeated incidents: Jul 2023 multi-day downtime reports; Sep 2025 HTTP 500 on charts endpoints; DH-905 on chart endpoints Jun-Aug 2026 unresolved; open GitHub issues Oct… src	? No API outage reports or status page found; consumer app outage 23 Jan 2024 (resolved) and SEBI settlement over Jan 2024 glitch src
`other.alerts_api`	✅ Conditional trigger orders via POST /alerts/orders: indicators (e.g. SMA_5), timeframes DATE to DAY, operators such as CROSSING_UP; one or more orders per trigger; postb… src	? No alerts API found src
`other.order_slicing`	✅ POST /orders/slicing for F&O orders above the freeze quantity src	? No order slicing found src
`other.exit_all_kill_switch`	✅ Exit All API: DELETE /positions exits all active positions and cancels all open orders for the day (no body; returns status and message). Kill switch (POST /killswitch) is separate and does not exit… src	? No exit-all or kill switch found src
`other.market_price_protection`	⚠️ MPP applied automatically to API market orders from Mar 2026 (converted to limit); no MPP parameter found in orders docs src	? No market price protection found src
`other.mtf_via_api`	✅ MTF is a productType on the orders API src	? No MTF via API found src
`other.static_ip_management_api`	✅ Modify IP API for the whitelisted static IP, usable once every 7 days; IP setup available via API (v2.4) src	? Groww whitelists the static IP; no API to manage IPs found src

Rows where groww is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What groww has that dhan lacks

Feature	groww	dhan
`other.futures_chain_api`	⚠️ No futures-chain endpoint; Get Expiries and Get Contracts list FNO contracts (incl. FUT symbols) from 2020 src	? No futures chain endpoint found; option chain and expiry list cover options underlyings only src

Same feature, different strength (both have it, grades differ)

Feature	dhan	groww
`access_cost.data_addons`	⚠️ Data API Rs 499/month plus taxes is the paid add-on for market and historical data src	✅ None separate: live data and historical data bundled in paid subscription; no add-on price found src
`auth.api_app_creation_open_to_retail`	✅ Trading API access is free for every Dhan user; API key/consent-app flow is self-serve. Data API needs a separate paid subscription. src	⚠️ Needs an active Trading API subscription (paid, Rs 499/month per third-party review) before keys can be used; not open to every account by default. src
`live_data.depth_levels`	✅ 200 levels (WebSocket, NSE Equity and Derivatives only, 1 instrument per connection); 20 levels (WebSocket, NSE, up to 50 instruments per connection); 5 levels (REST quo… src	⚠️ 5 levels per side (inferred from sample keys 1-5; explicit level count not stated) src
`live_data.greeks`	⚠️ Delta, theta, gamma, vega and IV only via POST /optionchain (REST snapshot, one unique request per 3 s); not in live WebSocket feed src	✅ get_greeks (delta, gamma, theta, vega, rho, iv) and Greeks in option chain src
`historical.expired_fno`	⚠️ Expired options only via POST /charts/rollingoption: up to 5 years, 30 days per call, strikes relative to ATM (ATM+-10 near-expiry index options, ATM+-3 otherwise). Expi… src	✅ Get Expiries and Get Contracts APIs list expired FNO expiries and contracts from 2020; candles by Groww symbol src
`trading.postbacks_webhooks`	✅ Postback: Dhan POSTs JSON to the URL set at token generation on each order status change; also a live order-update WebSocket. No postback retry behaviour documented; loc… src	⚠️ No webhooks or postbacks found; order and position updates only via the feed (stream only) src
`compliance.sebi_algo_fit`	✅ Algo Registration required only above 10 OPS; Algo ID obtained by emailing apihelp@dhan.co; static IP managed via Modify IP API src	⚠️ Static IP whitelisting (primary + secondary) per SEBI retail algo circular of 4 Feb 2025; 10 OPS matches retail threshold; Algo ID and registration per secondary sources… src
`other.bracket_cover_supe`	✅ Super orders (entry, target and stop-loss legs in one request, optional trailing SL); BO and CO product types also available src	⚠️ Bracket orders only via GTT child legs (target/stop-loss); no cover or super orders found src

Feature	dhan	groww
r_orders		

Same feature, descriptive values (limits, auth, history depth)

Feature	dhan	groww
access_cost.required_account	info A Dhan account (API connects to the user's Dhan account) src	value Groww account plus active Trading API subscription (bought on the docs page) src
auth.method	info Three paths: (1) API key and secret, then consent, browser login (tokenId), consume consent for access token; (2) generateAccessToken with client ID, PIN and TOTP; (3) manual access token from Dhan W… src	value Three flows: web-UI access token; API key+secret (SHA-256 checksum of secret+epoch, daily approval); TOTP (key_type totp); Bearer token plus X-API-VERSION 1.0 src
auth.token_expiry	info 24 hours from generation; expired tokens cannot be renewed (Renew Token extends an active Dhan Web token by 24 h) src	value Web-UI token expires daily 6:00 AM (timezone not stated on official page); API key+secret needs daily approval; TOTP expiry conflicts between curl page (daily approval) and python-sdk page (No Expiry) src
live_data.ws_instrument_limit	info Up to 5000 instruments per connection; each subscribe message up to 100 instruments; implied 25,000 across 5 connections src	value Up to 1000 instruments subscribed at a time (feed; per-connection limit not found) src
live_data.ws_connection_limit	info 5 WebSocket connections per user; opening a 6th disconnects the first with code 805 src	? Per-connection limit not found src
historical.intraday_depth	info Last 5 years of minute data; max 90 days per request src	value From 2020 via backtesting API (1-5 min max 30 days per request). Legacy deprecated endpoint: last 3 months only src
historical.daily_depth	info Back to the instrument's listing (inception) src	value From 2020 via backtesting API (max 180 days per request); legacy 1-day endpoint full history, 1080 days per request src
trading.order_types	info LIMIT, MARKET, STOP_LOSS, STOP_LOSS_MARKET src	value MARKET, LIMIT, STOP_LOSS, STOP_LOSS_MARKET; validity DAY; products incl. CNC, MIS, NRML src
trading.segments_exchanges	info NSE_EQ, NSE_FNO, BSE_EQ, BSE_FNO, MCX_COMM, currency segments, IDX_I (index values). SDK v2.3.0 notes mention US global stocks trading src	value CASH (equity) and FNO on NSE/BSE; MCX commodities not available src
limits.rest_rate_limits	info Order APIs 10/s, 250/min, 1000/hr; Data APIs 5/s, 100000/day; Quote APIs 1/s, unlimited per min/hr/day; Non-Trading 20/s; option chain one unique request per 3 s. Errors DH-904 (trading) and 805 (dat… src	value Per type, shared across APIs in the type: Auth 5/s 30/min; Orders 10/s 250/min; Live Data 10/s 300/min; Non Trading 20/s 500/min src
limits.orders_per_second	info 10 OPS (cut from 25 in Mar 2026); strategies above 10 OPS need Algo Registration src	value 10 per second (250 per minute) for create, modify and cancel src
limits.daily_caps	info 7,000 orders per day; 25 modifications per order; Data API 100000 requests per day; up to 25 consent app IDs per user per day src	value Token endpoint 150 requests per 24h; no daily order cap found src
reliability_support.support_channels	info Email apihelp@dhan.co (algo and API help); help email referenced in forum posts; chat support (one user called it bot-like); community forum (madefortrade); GitHub issues on DhanHQ-py src	? No documented API support channel found src
other.latency_claims	info UNVERIFIED vendor and staff claims: 90% of orders executed within 25 ms (Jun 2025 forum thread); ~40% under 10 ms and ~90% under 20 ms (Dhan staff, Apr 2025); 98% under 20 ms (AlgoMatrix blog, Mar 20… src	value Groww average latency 65ms per MarketCalls (author-reported, unverified); Groww faster than Dhan per openbroker.in (second-hand, unmeasured) src
other.account_extras	info User Profile API (v2.2); Funds and Margin, Statement and EDIS in navigation (details not retrieved). Payout, IPO and mutual fund APIs not found src	value User Profile API (2 Dec 2025); realised_pnl in positions API (8 Nov 2025) src

Cost

Dhan Data API Rs 499/month plus taxes per Dhan's FAQ (the cited pricing page gives Rs 499 without period or tax; trading free) vs Groww Rs 499/month plus taxes (or Rs 4,999/year) for live data.

Item	dhan	groww
`access_cost.api_fee`	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src	⚠️ Rs 499/month + 18% tax (monthly, billed Rs 6,000/yr); yearly Rs 4,999 (~Rs 417/month) + tax; Rs 2000 is an earlier price src
`access_cost.free_tier`	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src	⚠️ Free Trial Rs 0/month: auth, instruments, order place/modify/cancel, positions, holdings, margin; excludes live quotes/LTP/OHLC, option chain, Greeks, backtesting candles src
`access_cost.data_addons`	⚠️ Data API Rs 499/month plus taxes is the paid add-on for market and historical data src	✅ None separate: live data and historical data bundled in paid subscription; no add-on price found src
`historical.cost`	⚠️ Included in Data API subscription: Rs 499/month plus taxes src	⚠️ Not in Free Trial; included in paid Rs 499/month plan (no per-call fee found) src
`other.brokerage_per_order`	info Standard rates: Rs 0 equity delivery; intraday equity Rs 20 or 0.03% of trade value, whichever is lower; F&O Rs 20 per executed order. No separate API rate stated src	? No per-order brokerage found; 20% cash-segment margin is trading margin, not an API fee src

Community evidence naming the other provider

- (groww profile, comparison_claims) Groww and Finvasia faster than Dhan per openbroker.in (second-hand, unmeasured) src

Open flags from the profiles

- dhan: Data API (historical and live feed) paid Rs 499/month; Trading API free
- dhan: Static IP mandatory for orders, 7-day edit lock
- dhan: Recurring unresolved Data API issues in 2026 (DH-905, lag, GitHub #164)
- dhan: Latency numbers are staff/vendor claims, unverified
- dhan: Community material mixes Dhan-staff and promotional sources
- dhan: Verify-pass mismatch: cited dhanhq.co/trading-apis gives Data API Rs 499 but does not state a monthly billing period; api_fee confidence lowered to medium
- dhan: access_cost.api_fee: unsupported by cited page as of 2026-11-03 (https://dhanhq.co/trading-apis shows Rs 0 trading and Rs 499 data but no monthly period or taxes)
- dhan: access_cost.api_fee: hand-check 2026-11-03 MISMATCH on "per month" and "+ taxes" wording; Rs 0 / Rs 499 match
- dhan: other_features Exit All: endpoint page confirmed 2026-11-03 (DELETE /positions on dhanhq.co/docs/v2/portfolio/); release notes point to a conditional-trigger anchor instead, minor docs inconsistency
- groww: Pricing conflict: Rs 499 vs earlier Rs 2000; plan billing Rs 6,000/yr vs 499x12=5,988
- groww: Historical depth conflict: 3 months (landing, legacy API) vs from 2020 (backtesting API)
- groww: Order list max page_size conflict: 100 vs 25 on the same page
- groww: Official python-sdk/authentication page 404; api-keys page login-walled; PyPI blocked by CAPTCHA
- groww: Reddit, X and Business Standard were blocked; community coverage thin
- groww: Most community praise is pre-API (2023) or promotional
- groww: Re-check 2026-11-03 auth/token_expiry mismatch: curl page (cited) says TOTP requires daily approval and does not state 'No Expiry'; python-sdk page says TOTP no expiry, no daily approval. Confidence lowered to low.
- groww: Re-check 2026-11-03: legacy 3-month historical endpoint claim is cited to backtesting page, which does not mention a legacy endpoint (unverified, not a mismatch)
- groww: live_data.depth_levels unsupported by cited page as of 2026-11-03 (no explicit depth-level count; sample keys 1-5 only)
- groww: Spot-check 2026-11-03 auth.token_expiry: cited curl source contradicts TOTP 'No Expiry'; supporting source found on python-sdk page (official pages conflict). Original claim kept, confidence low. See conflicts.

Dhan (DhanHQ API) vs Upstox API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/dhan.json`, `profiles/upstox.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Upstox edges Dhan overall: free data vs Rs 499, basket and multi-order, live Greeks, position conversion, charges API, CAS fields and a fresher changelog. Dhan offers the deeper free depth tiers (20/200 levels without a paid plan), super orders, alerts with conditional orders, a documented partner program and official TOTP login (✅ via generateAccessToken; Upstox is also ✅ since the 2026-11-05 check found its documented PIN and TOTP token endpoint). Both now have SDKs graded ⚠️ (Dhan Python and TypeScript; Upstox Python confirmed). For live algo trading the two are now level (73.5 vs 73.3). Both grade ✅ on SEBI algo fit. Community posts (9-14 Jan 2026) report that Upstox paused new retail API app creation from 5 Jan 2026, with a tentative resumption on 16 Jan. The 2026-11-03 status check (internal working notes, not published) found that none of these posters shows a staff role, and that users reported on 19-20 Jan 2026 that app creation works again; no Upstox staff post or official page confirms either the pause or its end. Decided: `auth.api_app_creation_open_to_retail` stays ⚠️ for Upstox, because there is no official notice that the Jan 2026 pause ended, although user posts of 19-20 Jan 2026 say creation works. The first-pass reading that Upstox's own page contradicted the pause did not hold: that page is silent on it. Dhan's app creation is ✅ (self-serve). A Dhan user reported its Data API lagging Upstox by 5-6 s, and Dhan acknowledged it.

Scores

Use case	dhan	upstox
Algo (live)	73.3 (#3)	76.1 (#2)
Backtesting	58.8 (#5)	69.2 (#2)
App building	62.9 (#3)	64.9 (#2)
General	64.3 (#3)	71.5 (#2)

Known (non-?) graded features: dhan 39, upstox 39 of 49 and 50 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	upstox (2.8 points ahead: 76.1 vs 73.3)	Dhan for super orders, 200-level depth and app creation that is open today; Upstox for kill switch plus free data. Confirm Upstox app creation is open before you commit (a Jan 2026 pause was reported and no resumption notice was found).
Backtesting	upstox	Upstox 69.2 vs Dhan 58.8. Free history; Dhan has more minute depth (5 years) but recurring history-endpoint errors.
App building	upstox (single user, narrow); dhan (multi-user)	Upstox 64.9 vs Dhan 62.9.
General	upstox	Upstox 71.5 vs Dhan 64.3.

What dhan has that upstox lacks

Feature	dhan	upstox
`live_data.tick_by_tick`	✅ Described as tick-by-tick event-based data; server pings every 10 s and closes after 40 s without response src	? Not stated. Feed modes are ltpc, option_greeks, full, full_d30; no tick-by-tick mode or update interval found. src
`reliability_support.outages`	⚠️ Repeated incidents: Jul 2023 multi-day downtime reports; Sep 2025 HTTP 500 on charts endpoints; DH-905 on chart endpoints Jun-Aug 2026 unresolved; open GitHub issues Oct… src	? No status page found. One user-reported API outage (Jun 2025, no staff reply) plus unanswered execution complaints (Feb 2026). Not enough to grade as repeated incidents… [src](https://community.upstox.com/t/upstox-api-and-sensibull-not-working/9313 ; https://community.upstox.com/t/complaint-regarding-system-failure-on-3-february-2026/14094)
`other.alerts_api`	✅ Conditional trigger orders via POST /alerts/orders: indicators (e.g. SMA_5), timeframes DATE to DAY, operators such as CROSSING_UP; one or more orders per trigger; postb… src	? No price alerts API in the docs index (no explicit statement either way). src
`other.bracket_cover_super_orders`	✅ Super orders (entry, target and stop-loss legs in one request, optional trailing SL); BO and CO product types also available src	? No bracket, cover or super order endpoint in the docs index. Closest items are multi-order, GTT with trailing stop-loss and GTT MULTIPLE. src
`other.streaming_protocol`	✅ Binary packets with documented response codes (2 ticker, 4 quote, 5 OI, 6 prev close, 8 full) and parsed by the official Python SDK src	? Wire format of the market feed not stated on the feed docs reviewed (no protobuf/JSON statement found). src

Rows where upstox is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What upstox has that dhan lacks

Feature	upstox	dhan
`trading.basket`	✅ Multi-order place/cancel with auto-slicing (documented in rate-limit and multi-order pages); Basket Orders advertised on trading-api page. [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/rate-limiting/)	❌ No direct basket order API; baskets must be built by placing orders individually src
`trading.multi_leg_options`	⚠️ Partial: GTT MULTIPLE is a multi-leg order type (FO/OCO), and multi-order placement exists. No native option-strategy (spread/straddle) order API stated. [src] (http://upstox.com/developer/api-documentation/get-gtt-order-details/ ; https://upstox.com/trading-api/)	? No multi-leg strategy order endpoint found in orders docs (only multi-leg margin calculator, added v2.3.0, and BO/CO/super orders) src
`other.futures_chain_api`	⚠️ Get Expiries endpoint lists expiry dates for an underlying. No single futures-chain endpoint returning contracts across expiries found in the docs index. src	? No futures chain endpoint found; option chain and expiry list cover options underlyings only src
`other.position_conversion`	✅ Convert Positions API switches open position margin product between intraday, delivery and MTF (listed in docs index with example code). Restrictions not checked. src	? No position conversion endpoint found in orders docs; portfolio page content not retrieved src
`other.charges_brokerage_api`	✅ Charges API calculates brokerage, taxes, STT and transaction charges for an order before trading. src	? No charges or brokerage calculation endpoint found in orders docs; Funds and Statement pages not retrieved src
`other.closing_auction_session`	✅ CAS support announced Aug 1 2026. Full Market Quotes V3 and full/full_d30 feeds add closing-auction values (indicative price, quantity, imbalance, reference price, CAS e… [src] (https://upstox.com/developer/api-documentation/announcements/market-quote-v3-full-quotes/ ; https://upstox.com/developer/api-documentation/announcements/closing-auction-session)	? Prev Close packet (code 6) exists; no closing auction fields documented src

Same feature, different strength (both have it, grades differ)

Feature	dhan	upstox
`access_cost.api_fee`	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src	✅ 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page. src
`access_cost.free_tier`	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src	✅ Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.d… src
`auth.multi_user`	✅ Partner program documented: partners receive partner_id and partner_secret, serve their own users through per-user consent login, each user gets own access token and uni… src	⚠️ Partial: per-customer OAuth tokens (client_id is the app API key); Access Token Flow (Beta, Jan 2025) lets Initiators generate customer tokens. No explicit multi-account… [src](http://upstox.com/developer/api-documentation/announcements/ ; http://upstox.com/developer/api-documentation/authentication/)
`auth.api_app_creation_open_to_retail`	✅ Trading API access is free for every Dhan user; API key/consent-app flow is self-serve. Data API needs a separate paid subscription. src	⚠️ Creating an app is the documented route and nominally open to retail, but retail app creation was reported paused from 5 Jan 2026 (staff post); no resumption notice foun… src
`live_data.greeks`	⚠️ Delta, theta, gamma, vega and IV only via POST /optionchain (REST snapshot, one unique request per 3 s); not in live WebSocket feed src	✅ Live Greeks/IV via Option Greeks quote endpoint, option_greeks feed mode and full feed. [src](http://upstox.com/developer/api-documentation/market-quote/ ; http://upstox.com/developer/api-documentation/v3/get-market-data-feed/)
`historical.cost`	⚠️ Included in Data API subscription: Rs 499/month plus taxes src	✅ Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found). [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`dev_experience.changelog_freshness`	⚠️ Last API release note: v2.5, 09 Feb 2026 (more than 6 months before 3 Nov 2026). Dhan staff said all API changes went live 1 Apr 2026 in a forum post src	✅ Active announcements log: latest dated entries Aug 1 2026 (CAS support), Jun 6 2026 (Agent Skills, analytics token change). Within 6 months. src
`other.option_chain_api`	✅ POST /optionchain returns strikes with OI, previous OI, greeks, IV, volume and bid/ask; POST /optionchain/expirylist lists active expiries; one unique request per 3 s src	⚠️ Put/Call Option Chain endpoint exists (listed in docs index) and returns strike-wise greeks and premium. OI and IV are separate endpoints, so not in one call. Title-leve… src
`other.order_position_stream`	⚠️ Live order-update WebSocket (wss://api-order-update.dhan.co) covers orders only; no position stream documented src	✅ Order updates on WebSocket (payload identical to webhook) and a Portfolio Stream Feed API listed in the docs index. Position-specific stream content not confirmed. [src](http://upstox.com/developer/api-documentation/webhook/ ; https://upstox.com/developer/api-documentation/get-portfolio-stream-feed)
`other.market_price_protection`	⚠️ MPP applied automatically to API market orders from Mar 2026 (converted to limit); no MPP parameter found in orders docs src	✅ Market price protection parameter on Market and SL-M orders (announcement 'Market Protection for Market and Stoploss Market Orders' in docs index); default -1 (automatic… src
`other.mcp_ai_tooling`	⚠️ dhan-oss/dhanhq-skills: agent skills (Agent Skills standard, not MCP) for orders, portfolio, market data and option chains; 42 stars. Official status not explicitly conf… src	✅ Official: Agent Skills (launched Jun 6 2026, built on upstox-python-sdk), MCP integration page, Claude plugin marketplace, agent quickstart. [src](https://upstox.com/developer/api-documentation/announcements/agent-skills-launch ; https://upstox.com/developer/api-documentation/mcp-integration)

Same feature, descriptive values (limits, auth, history depth)

Feature	dhan	upstox
`access_cost.required_account`	info A Dhan account (API connects to the user's Dhan account) src	info Upstox trading account plus a created developer app. Retail app-creation pause (Jan 2026 community report) is UNCONFIRMED: the trading-api page shows app creation open and no pause notice; no resumpt… [src](https://upstox.com/trading-api/ ; https://community.upstox.com/t/api-application-creation-pause-for-retail-clients/13477)
`auth.method`	info Three paths: (1) API key and secret, then consent, browser login (tokenId), consume consent for access token; (2) generateAccessToken with client ID, PIN and TOTP; (3) manual access token from Dhan W… src	info OAuth 2.0 authorization-code flow (customer login, single-use code exchanged server-side). Separate read-only Analytics token from the Developer Apps page; Access Token Flow (Beta) lets Initiators ge… src

Feature	dhan	upstox
`auth.token_expiry`	info 24 hours from generation; expired tokens cannot be renewed (Renew Token extends an active Dhan Web token by 24 h) src	info Standard access token: regenerate every day. Analytics token: valid 1 year per announcement (1-year wording not on the cited API-overview page, unverified). Static-IP change invalidates existing toke… [src] (http://upstox.com/developer/api-documentation/api-overview/ ; http://upstox.com/developer/api-documentation/announcements/analytics-token/)
`live_data.ws_instrument_limit`	info Up to 5000 instruments per connection; each subscribe message up to 100 instruments; implied 25,000 across 5 connections src	info Normal: LTPC 5000 individual / 2000 combined; Option Greeks 3000 / 2000; Full 2000 / 1500. Plus full_d30: 50 individual / 1500 combined. Table values confirmed; 'per connection' wording not on the ci… src
`live_data.ws_connection_limit`	info 5 WebSocket connections per user; opening a 6th disconnects the first with code 805 src	info 2 concurrent connections per user (Normal); 5 per user (Plus). [src] (http://upstox.com/developer/api-documentation/v3/get-market-data-feed/ ; http://upstox.com/developer/api-documentation/announcements/websocket-plus/)
`historical.intraday_depth`	info Last 5 years of minute data; max 90 days per request src	info Contradictory on the same page: 1-minute = final month before endDate (or six months per NOTE); 30-minute = past year (or six months per NOTE). Unresolved. src
`historical.daily_depth`	info Back to the instrument's listing (inception) src	info Daily: past year up to endDate. Weekly: previous 10 years. Monthly: last 10 years. No max span per request stated. src
`trading.order_types`	info LIMIT, MARKET, STOP_LOSS, STOP_LOSS_MARKET src	info MARKET, LIMIT, SL, SL-M. Products I (Intraday), D (Delivery), MTF. AMO and iceberg not stated. src
`trading.segments_exchanges`	info NSE_EQ, NSE_FNO, BSE_EQ, BSE_FNO, MCX_COMM, currency segments, IDX_I (index values). SDK v2.3.0 notes mention US global stocks trading src	? Not stated on the trading-api page; only feed keys (NSE_INDEX) and forum mentions of MCX found. Exchange appendix from the prior grade not in current notes. src
`limits.rest_rate_limits`	info Order APIs 10/s, 250/min, 1000/hr; Data APIs 5/s, 100000/day; Quote APIs 1/s, unlimited per min/hr/day; Non-Trading 20/s; option chain one unique request per 3 s. Errors DH-904 (trading) and 805 (dat… src	info Order place/modify/cancel/multi-order/GTT (one bucket): regular algo 10/sec, SEBI-registered algo 50/sec; both 500/min, 2000/30min. Other standard APIs (holdings, positions, funds, historical candles… src
`limits.orders_per_second`	info 10 OPS (cut from 25 in Mar 2026); strategies above 10 OPS need Algo Registration src	info 10 OPS is the threshold above which SEBI algo registration is required. Registered algos get 50 requests/sec on order endpoints. [src] (http://upstox.com/developer/api-documentation/announcements/algo-trading-circular/ ; http://upstox.com/developer/api-documentation/rate-limiting/)
`limits.daily_caps`	info 7,000 orders per day; 25 modifications per order; Data API 100000 requests per day; up to 25 consent app IDs per user per day src	✅ None stated explicitly: rate-limit windows are per second, per minute and per 30 minutes only. Absence on one page; verify. src
`reliability_support.support_channels`	info Email apihelp@dhan.co (algo and API help); help email referenced in forum posts; chat support (one user called it bot-like); community forum (madefortrade); GitHub issues on DhanHQ-py src	info Developer community forum (community.upstox.com, staff replies); business email api@upstox.com. src
`other.third_party_integrations`	? No integrations list (OpenAlgo, AlgoTest, TradingView, AmiBroker) found in collected notes or trading-apis page src	info Tradetron seen in customer reports only. No official integration list found; OpenAlgo, AlgoTest, TradingView, AmiBroker not mentioned in notes. src
`other.latency_claims`	info UNVERIFIED vendor and staff claims: 90% of orders executed within 25 ms (Jun 2025 forum thread); ~40% under 10 ms and ~90% under 20 ms (Dhan staff, Apr 2025); 98% under 20 ms (AlgoMatrix blog, Mar 20… src	info Vendor claim, unverified: non-order API latency under 100 ms. Order throughput advertised as 50 requests/sec. src
`other.account_extras`	info User Profile API (v2.2); Funds and Margin, Statement and EDIS in navigation (details not retrieved). Payout, IPO and mutual fund APIs not found src	info Payouts (get payouts, payout modes, payins, request, modify, cancel), IPO (get IPOs, apply, cancel), Mutual Fund (holdings, orders, SIPs), Trade P&L reports, Payments, User profile, Funds and Margin… [src]

Feature	dhan	upstox
		(https://upstox.com/developer/api-documentation/llms.txt ; https://upstox.com/developer/api-documentation/rate-limit/)

Cost

Upstox: Rs 0/month, Rs 10 per API order (promo), with Plus for premium feeds. Dhan: trading free, data Rs 499 (monthly plus taxes per Dhan's FAQ, not on the cited pricing page), Rs 20 per F&O order.

Item	dhan	upstox
`access_cost.api_fee`	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src	✅ 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page. src
`access_cost.free_tier`	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src	✅ Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.d… src
`access_cost.data_addons`	⚠️ Data API Rs 499/month plus taxes is the paid add-on for market and historical data src	⚠️ Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found. [src](http://upstox.com/developer/api-documentation/announcements/websocket-plus/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`historical.cost`	⚠️ Included in Data API subscription: Rs 499/month plus taxes src	✅ Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found). [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`other.brokerage_per_order`	info Standard rates: Rs 0 equity delivery; intraday equity Rs 20 or 0.03% of trade value, whichever is lower; F&O Rs 20 per executed order. No separate API rate stated src	info Rs 10 per executed order via individual-account API (promo, valid till 31 Dec 2026 per official page; GTT excluded). Rs 20 per order for multi-client vendor API orders (… [src](https://upstox.com/trading-api/ ; https://community.upstox.com/t/mcx-algo-trading-brokerage-mismatch/13936)

Community evidence naming the other provider

- (dhan profile, complaints) Data API 5-6 s lag and price discrepancies vs Upstox; acknowledged, no fix shown src
- (dhan profile, comparison_claims) User stopped using Dhan API for cost and accuracy; another compares Data API lag against Upstox src

Open flags from the profiles

- dhan: Data API (historical and live feed) paid Rs 499/month; Trading API free
- dhan: Static IP mandatory for orders, 7-day edit lock
- dhan: Recurring unresolved Data API issues in 2026 (DH-905, lag, GitHub #164)
- dhan: Latency numbers are staff/vendor claims, unverified
- dhan: Community material mixes Dhan-staff and promotional sources
- dhan: Verify-pass mismatch: cited dhanhq.co/trading-apis gives Data API Rs 499 but does not state a monthly billing period; api_fee confidence lowered to medium
- dhan: access_cost.api_fee: unsupported by cited page as of 2026-11-03 (https://dhanhq.co/trading-apis shows Rs 0 trading and Rs 499 data but no monthly period or taxes)
- dhan: access_cost.api_fee: hand-check 2026-11-03 MISMATCH on "per month" and "+ taxes" wording; Rs 0 / Rs 499 match
- dhan: other_features Exit All: endpoint page confirmed 2026-11-03 (DELETE /positions on dhanhq.co/docs/v2/portfolio/); release notes point to a conditional-trigger anchor instead, minor docs inconsistency

- upstox: Retail API app creation was reported paused/disabled in Jan 2026 (community staff); UNCONFIRMED and contradicted by https://upstox.com/trading-api/ (app creation shown open, 2026-11-03). Treat the pause as unconfirmed, not as a current restriction
- upstox: Rs 10/order promo end date conflicts across sources (31 Dec 2026 official; 31 Mar 2026 and 30 Sep 2026 elsewhere)
- upstox: Historical 1-minute and 30-minute depth is internally contradictory on the official page
- upstox: Rate-limit page URL variants: /rate-limiting/ cited in docs, /rate-limit/ returned 404 in one fetch while cited in another; re-verify
- upstox: Static-ip and terms-of-use doc URLs returned 404; no redistribution terms found
- upstox: 8 fields are '?': tick_by_tick, continuous_futures, multi_leg_options, segments_exchanges, doc_quality, github_activity, redistribution_commercial_terms, community_size
- upstox: Re-check 2026-11-03: cited algo-trading-circular page says standard read-only APIs (holdings, positions, funds, historical candles) are NOT restricted by static IP; the claim that Analytics-token account APIs need a registered static IP is unsupported by that page; static_ip_required confidence lowered to medium
- upstox: Spot-check 2026-11-03: 'retail app creation paused Jan 2026' is now doubtful: Upstox's own trading-api page shows a Start Building button and no pause notice; community thread only says tentative resumption 16 Jan, unconfirmed; required_account confidence lowered to low
- upstox: Spot-check 2026-11-03: unverified sub-clauses: Rs 20 multi-client fee, Analytics token 1-year validity, 'per connection' WebSocket wording
- upstox: access_cost.required_account: pause claim not on trading-api page; sourced to community thread
- upstox: access_cost.required_account: current app-creation status unconfirmed (no resumption notice found)

Zerodha Kite Connect vs Angel One SmartAPI

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/angel.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Community users point to SmartAPI as the free alternative to Kite, and on cost that holds (Rs 0 vs Rs 500/month), as does official TOTP login. On everything else Kite is far better documented and better evidenced: a documented margin API, a charges API, alerts, order slicing, market protection, live index streaming and 6 SDKs. Angel has ? or ⚠️ on most of these (its margin calculator moved from ? to ⚠️ after the 2026-11-03 refetch: it is advertised on a marketing page but not in the SDK), and its terms restrict use to personal, non-commercial purposes. The refetch-2 round (2026-11-03) closed part of the gap: Angel now has order postbacks ✅, live OI ✅ and a full interval list (both level with Kite), plus per-request history caps, but basket orders are ❌ and live indices only ⚠️. Angel rose from 47.1 to 53.9 for algo trading; Kite still leads every use case.

Scores

Use case	kite	angel
Algo (live)	55.4 (#6)	53.9 (#10)
Backtesting	64.4 (#3)	58.4 (#6)
App building	56.7 (#4)	48.4 (#14)
General	58.0 (#4)	50.5 (#10)

Known (non-?) graded features: kite 40, angel 29 of 50 and 50 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	kite (features); angel (unattended login, zero cost)	Kite 55.4 vs Angel 53.9. Angel automates login and now has order postbacks, but has ticks dropping at large token counts and unannounced token removals.
Backtesting	kite	Kite 64.4 vs Angel 58.4. Continuous futures and multi-year archive; Angel now documents intervals (1-minute to 1-day) and per-request caps (1m 30 days, ONE_DAY 2000 days) but not total look-back.
App building	kite	Kite 56.7 vs Angel 48.4. Angel forbids commercial use.
General	kite	Kite 58.0 vs Angel 50.5.

What kite has that angel lacks

Feature	kite	angel
`live_data.rest_quotes`	✅ /quote up to 500 instruments per call (with depth); /quote/ohlc and /quote/ltp up to 1000 per call src	? Market quote and getLtpData endpoints exist at 10 req/s; max instruments per call not found src
`historical.expired_fno`	⚠️ continuous=1 returns day candles for expired NFO/MCX futures; expired instrument_tokens are not retrievable unless the user caches the instrument dump regularly src	? Historical covers NSE Equity and NFO Futures; expired contracts not stated src

Feature	kite	angel
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Not found src
`compliance.redistribution_commercial_terms`	⚠️ No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India src	❌ Personal, internal and non-commercial use only; copying, selling, redistributing or databasing platform content prohibited; scraping AI outputs to build competing tools… src
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	? Not found src
`other.bracket_cover_super_orders`	⚠️ Cover orders (multi-leg, second leg spawned by first) documented; bracket or super orders with trailing SL not found src	? Not found; only variety NORMAL shown in SDK example, STOPLOSS absent src
`other.order_slicing`	✅ Orders above freeze limit are automatically split into smaller internal orders src	? Not found src
`other.order_position_stream`	⚠️ WebSocket delivers order postbacks and updates in text mode; position stream not found src	? Not found; order postbacks also absent src
`other.market_price_protection`	✅ market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.') src	? Not found src
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	❌ No basket-order API in docs navigation (absence evidence: only Orders, GTT, Margin Calculator etc.) src

Rows where angel is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What angel has that kite lacks

Feature	angel	kite
`auth.totp_automation`	✅ Official SDK sample generates login TOTP with pyotp; no manual browser step stated src	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
`live_data.greeks`	✅ Option Greek API named in changelog 1.4.8; live vs snapshot and endpoint details not verified src	❌ No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog) src

Now level after the refetch-2 regrade (both ✅)

Feature	kite	angel
`live_data.oi`	✅ Open Interest and OI day high/low in WebSocket quote layout; open_interest in REST quotes (F&O only) src	✅ Live open interest returned per symbol in FULL quote mode (opnInterest); OI Buildup and PCR APIs are NSE only src
`trading.postbacks_webhooks`	✅ HTTP POST JSON postbacks to postback_url (COMPLETE, REJECTED, CANCELLED, UPDATE); also text-mode updates over WebSocket src	✅ Postback URL set at API key creation (HTTPS 443): real-time order updates only; AMO notifications sent at 9:00 AM src

Same feature, different strength (both have it, grades differ)

Feature	kite	angel
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (no subscription; SmartAPI 'completely FREE OF COST'); Rs 20/order brokerage figure unverified src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market	✅ Full SmartAPI free: trading, market feeds (WebSocket), historical data src

Feature	kite	angel
	data or WebSocket src	
historical.cost	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free (0 Rs) src
live_data.indices	✅ Index instruments (NIFTY 50, SENSEX) stream with a distinct packet structure src	⚠️ Only historical index candles documented ('past data of the indices'); no live index feed found in Market Data docs src
trading.margin_calculator	✅ POST /margins/orders and POST /margins/basket (compact mode and consider_positions supported) src	⚠️ Advertised as a '50-position Margin Calculator API' on Angel One's SmartAPI marketing page; endpoint not in SDK README (changelog 1.4.8 lists only a brokerage calculator… src
dev_experience.official_sdks	✅ Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET src	⚠️ Python SDK (angel-one/smartapi-python) is the only official library found; other languages not found src
dev_experience.doc_quality	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Structured docs: endpoint, parameter and response tables, samples in Python, Node.js, Java, R, error codes page; minor JSON typos in samples; forum complaints about unannounced token removals src
dev_experience.changelog_freshness	⚠️ Last changelog entry 2025-06-12 (Alerts API); older than 6 months as of 2026-11-03 src	✅ Last known update: exchange-regulation changes 1 Apr 2026; GitHub issues active Jun to Sep 2026 src
other.mtf_via_api	✅ MTF product type; MTF orders added in changelog 2025-01-17 src	⚠️ MTF holdings visible in API data but hard to identify (GitHub issue #73, Sep 2026); MTF order placement not documented src
other.charges_brokerage_api	✅ POST /charges/orders for virtual contract notes (charges per order) src	⚠️ Brokerage Calculator API named in changelog 1.4.8; endpoint details not retrieved src
other.instrument_master	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	⚠️ Master contracts endpoint exists; format and refresh cadence not documented in fetched sources; tokens removed without notice (forum) src
other.streaming_protocol	✅ Binary packets with documented sizes (ltp 8 B, quote 44 B, full 184 B; depth entries 12 B); SDKs parse them; postbacks and updates use text mode src	⚠️ WebSocket with binary SNAP_QUOTE frames parsed by official SDK; wire schema not documented (parsing bug reported) src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	angel
access_cost.required_account	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	info Angel One client account with client code; API key from SmartAPI registration src
auth.method	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	info Client code + password/MPIN login (loginByPassword) returning JWT tokens (generateTokens); API key header; TOTP for 2FA src
auth.token_expiry	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	info Daily at 00:00 (midnight) for all users, old and new keys src
live_data.ws_instrument_limit	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	info 1000 token subscriptions per WebSocket session (forum, search snippet); SDK sample has client-side quota_limit=50 (conflict, version unknown) src
live_data.ws_connection_limit	value 3 WebSocket connections per API key src	info Up to 3 concurrent connections per client code (forum, search snippet) src
historical.intraday_depth	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	⚠️ Per-request day caps: 1m 30, 3m 60, 5m 100, 10m 100, 15m 200, 30m 200, 1h 400; total look-back not stated (earlier blog: up to 8,000 candles per request) src
historical.daily_depth	value Several years (exact daily lookback not stated in notes) src	✅ ONE_DAY: up to 2000 days per request; total history depth not stated src

Feature	kite	angel
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	info LIMIT confirmed in SDK example; MARKET and IOC prohibited for algo trading (effective date not on cited page); SL/SL-M not confirmed src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	info NSE equity and NFO futures named in intro; full segment list (BSE, MCX, CDS) not found src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	info Per second (per client code): placeOrder/modifyOrder/cancelOrder 9 combined; getLtpData 10; quote 10; getCandleData 2; getOrderBook 1; getTradeBook 1; getProfile 3; getHolding 1; generateTokens 1; lo… src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	info 9 OPS, cumulative across place/modify/cancel (official docs); SEBI TOPS threshold 10 OPS per exchange/segment; blog claims 20 (conflict) src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	info No daily request cap stated; per-second, per-minute and per-hour limits only, calculated per client code (placeOrder 1000/hr, getCandleData 5000/hr); all users logged out daily at midnight src
`reliability_support.support_channels`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	info SmartAPI forum; email to SmartAPI or partner addresses referenced by users; ticket or chat not confirmed src
`other.third_party_integrations`	? Community open-source projects found (e.g. login autologin script); OpenAlgo, AlgoTest, TradingView, AmiBroker not verified src	info No named platforms confirmed (OpenAlgo, AlgoTest, TradingView, AmiBroker not found); third-party connector libraries exist (digdigdig3 Rust, angelone-connect PyPI) src
`other.latency_claims`	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	info Unverified: intro page claims 10 trades per second; blog says latency reduced, no figures src
`other.account_extras`	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	info EDIS API and profile (getProfile) confirmed; payout, IPO, mutual funds not confirmed src

Cost

Angel SmartAPI Rs 0 including data (confirmed on Angel's own page); the Rs 20 per-order brokerage rests on a third-party FAQ only. Kite Rs 500/month per app for data.

Item	kite	angel
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (no subscription; SmartAPI 'completely FREE OF COST'); Rs 20/order brokerage figure unverified src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Full SmartAPI free: trading, market feeds (WebSocket), historical data src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	✅ No add-ons stated; all listed APIs described as free src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free (0 Rs) src
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	info Rs 20 flat per executed order plus taxes (third-party FAQ) src

Community evidence naming the other provider

- (kite profile, comparison_claims) u/MasterPop28: SmartAPI is free and rate limits reasonable src

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- angel: Official docs landing page returned only a title; many fields rest on SDK README, forum posts and announcements
- angel: Several limits (WebSocket 1000 tokens, 3 connections) come from forum search snippets with unchecked quotes
- angel: Order rate conflicts: 9/s (docs), 10/s (forum, intro page), 20/s (blog, old forum table, third-party)
- angel: Static IP rules changed over time (older forum: up to 5 IPs per key, not mandatory until 1 Oct; newer: mandatory from 1 Apr 2026, one client per IP)
- angel: Separate Smart API terms and conditions not retrieved
- angel: Re-check 2026-11-03: access_cost.api_fee cites angelone.in detailed-introduction page, which states SmartAPI is free but does not state the Rs 20 per-order brokerage; the brokerage figure rests on a third-party FAQ only
- angel: Re-check 2026-11-03: auth.static_ip_required cites the 1 Apr 2026 news article, which does not say only IPv4 is supported (IPv6 status unstated there); IPv4-only claim is unsourced
- angel: Re-check 2026-11-03: rest rate limits (limits.rest_rate_limits, live_data.rest_quotes) cite smartapi.angelone.in/docs/RateLimit, which returned only its page title on fetch; values unverified against the

cited page

- angel: Re-check 2026-11-03: live_data.depth_levels (5 levels) cites the smartapi-python issues list, which does not state depth levels; best_5 field naming in issue #71 is indirect support only
- angel: Spot-check 2026-11-03: unverified on cited pages: depth_levels (5 levels), Rs 20 per-order brokerage, 'IPv4 only'
- angel: Spot-check 2026-11-03 (confidence lowered one step, unsupported by cited page as of 2026-11-03): api_fee Rs 20 brokerage; static_ip_required 'IPv4 only'; multi_user '1 API key for non-registered algos'; order_types 1 Apr 2026 date for Market/IOC prohibition; depth_levels 5-level count

Zerodha Kite Connect vs ICICI Direct Breeze API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/breeze.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

A TradingQnA user picked ICICI Breeze over Kite on cost, and that is valid: Breeze is free with data (Rs 0) vs Kite's Rs 500/month. Breeze also has tick-by-tick streaming, live OHLCV candle streams (including 1-second candles) and a vendor claim of 3 years of second-level LTP data. The historical API itself lists 1minute as its finest interval; the 2026-11-03 spot-check found '1second' only in the live candle stream. Kite is otherwise the stronger, better documented API: a sandbox, postbacks, slicing, alerts, MTF and a changelog. Breeze has multi-leg and MTF orders explicitly unsupported (❌), non-standard symbols (NIFFIN, CNXBAN) and many open SDK bugs.

Scores

Use case	kite	breeze
Algo (live)	55.4 (#6)	53.3 (#12)
Backtesting	64.4 (#3)	59.4 (#4)
App building	56.7 (#4)	51.8 (#10)
General	58.0 (#4)	52.8 (#8)

Known (non-?) graded features: kite 40, breeze 33 of 50 and 53 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	kite	Kite 55.4 vs Breeze 53.3.
Backtesting	kite (narrow); breeze if cost matters	Kite 64.4 vs Breeze 59.4. Breeze history is free but users report gaps and duplicates in v2 data.
App building	kite	Kite 56.7 vs Breeze 51.8.
General	kite	Kite 58.0 vs Breeze 52.8.

What kite has that breeze lacks

Feature	kite	breeze
`live_data.depth_levels`	⚠️ 5 bid and 5 offer levels src	? Market Depth quote type exists (qualifier .2); level count not stated; GetQuotes sample shows one best bid and one best offer src
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Not stated in docs or product page src
`dev_experience.changelog_freshness`	⚠️ Last changelog entry 2025-06-12 (Alerts API); older than 6 months as of 2026-11-03 src	? No CHANGELOG file; README version history has entries but no dates (latest 1.0.68) src
`compliance.redistribution_commercial_terms`	⚠️ No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India src	? Not stated; only the no-fee statement found src

Feature	kite	breeze
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	? No price alerts endpoint found in docs src
`other.order_slicing`	✅ Orders above freeze limit are automatically split into smaller internal orders src	? Not found; only disclosed_quantity field appears in order placement src
`other.mtf_via_api`	✅ MTF product type; MTF orders added in changelog 2025-01-17 src	❌ Margin orders (margin product) placement, modification and cancellation via API prohibited src
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	? No API basket method found; basket order flow is shown only in the ICICIdirect app src

Rows where breeze is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What breeze has that kite lacks

Feature	breeze	kite
`live_data.tick_by_tick`	✅ Tick-by-tick stream; multiple stock tokens can be subscribed on a single WebSocket connection src	❌ Not tick-by-tick: snapshot modes (ltp, quote, full); staff forum reply 'It is not a tick by tick data', one or two ticks per second on the internet feed; 2016 post says every 700 ms to 1 s. Official… src
`other.option_chain_api`	⚠️ GetOptionChain for one expiry with strikes, open_interest and chnge_oi; Greeks and IV not stated; IV/IVP reported missing (issue 226) src	❌ No option chain endpoint; instruments CSV (strike, CE/PE) plus /quote lets you build one yourself (inference); changelog has no option chain entry src
`other.exit_all_kill_switch`	⚠️ Per-instrument /squareoff endpoint only; no exit-all, cancel-all or kill switch found src	❌ No exit-all endpoint: portfolio docs say exits are done by placing opposite orders; no kill-switch terms found on Orders, User, Changelog, docs root or support pages checked (medium confidence, absence-based) src
`other.live_ohlc_stream`	✅ Live OHLCV channels 1SEC, 1MIN, 5MIN, 30MIN over socket.io path ohlcvstream; max 2000 scripts src	? No OHLC or candle bar stream over WebSocket found; modes are ltp, quote, full src

Same feature, different strength (both have it, grades differ)

Feature	kite	breeze
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month: no fee to access Breeze API or its data src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free for all ICICIdirect customers; historical data and websocket live data included src
`live_data.rest_quotes`	✅ /quote up to 500 instruments per call (with depth); /quote/ohlc and /quote/ltp up to 1000 per call src	⚠️ GetQuotes exists (best bid/offer sample); instruments-per-call not stated; 100 calls/min shared across all endpoints src
`live_data.indices`	✅ Index instruments (NIFTY 50, SENSEX) stream with a distinct packet structure src	⚠️ Index data parsed for exchange code 3 in live feed; index symbols differ from NSE names (e.g. NIFFIN, CNXBAN); user reports of missing index strikes (issue 217) src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free src
`trading.postbacks_webhooks`	✅ HTTP POST JSON postbacks to postback_url (COMPLETE, REJECTED, CANCELLED, UPDATE); also text-mode updates over WebSocket src	⚠️ Order notifications via websocket subscribeFeeds with getOrderNotification; no webhook or postback found src
`dev_experience.doc_quality`	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Per-endpoint sample JSON and Learning Hub exist; depth levels, Greeks, websocket limits, session expiry and basket/multi-leg absent from docs src
`compliance.sebi_algo_fit`	⚠️ Client algos within 10 OPS need no exchange registration; above that an exchange Algo ID and strategy write-up are required; Zerodha does not submit empanelment for thir… src	✅ Static IP mandatory from 1 Apr 2026; 10 OPS or fewer needs no algo registration; one active key per static IP; flow documented src

Feature	kite	breeze
`other.market_price_protection`	✅ market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.') src	⚠️ protection_percentage appears in SquareOff sample with no description; no documented protection parameter on market or SL-M orders src
`other.static_ip_management_api`	✅ Self-service in the developer console (dashboard), changes effective instantly, capped at one per calendar week; no API found src	⚠️ IP changeable once per week; self-service interface not described; changing IP deletes existing keys src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	breeze
`access_cost.required_account`	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	value ICICIdirect account plus demat account with ICICI Securities; resident Indians only (NRI excluded) src
`auth.method`	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	value API key login at https://api.icicidirect.com/apiuser/login?api_key=KEY (OTP to registered mobile), then session_token used with generate_session(api_secret, session_token) src
`auth.token_expiry`	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	value Session key expires 24 hours after generation or at midnight, whichever applies per FAQ src
`live_data.ws_instrument_limit`	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	value Max 2000 scripts at a time across all OHLC and live streaming; per-connection split not stated src
`live_data.ws_connection_limit`	value 3 WebSocket connections per API key src	? Not stated in docs or search results src
`historical.intraday_depth`	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	value Vendor claim: 3 years of second-level LTP data; 1-second option data reported unavailable (issue 224) src
`historical.daily_depth`	value Several years (exact daily lookback not stated in notes) src	? Not stated; only the 3-year second-level LTP claim found src
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	value Limit orders; market orders not permitted via API; GTT single and cover_oco; SDK 1.0.68 Aggressive Limit Order; SL and SL-M not confirmed in notes src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	value NSE and NFO (equity and F&O); BSE and MCX securities not available on Breeze API; CDS not stated src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	value 100 calls per minute and 5000 calls per day per user, applied across all endpoints (no per-class split) src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	value 10 OPS combined (place, cancel, modify, square-off); orders above 10 per second auto-rejected; 10 OPS or fewer needs no algo registration src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	value 5000 calls per day per user src
`reliability_support.support_channels`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	value Email breezeapi@icicisecurities.com; no phone or helpline on API page; SDK bugs via GitHub issues src
`other.third_party_integrations`	? Community open-source projects found (e.g. login autologin script); OpenAlgo, AlgoTest, TradingView, AmiBroker not verified src	value OpenAlgo (ICICI Direct connection guide); AlgoTest, TradingView and AmiBroker not found src
`other.latency_claims`	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	? No latency or uptime claim found; only real-time order status via websockets src

Cost

Breeze Rs 0 including historical and WebSocket data (ICICIdirect account required, NRIs excluded) vs Kite Rs 500/month per app.

Item	kite	breeze
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month: no fee to access Breeze API or its data src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free for all ICICIdirect customers; historical data and websocket live data included src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	✅ None needed; historical and live data stated as absolutely free src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free src
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	? Per client's existing brokerage plan, capped at SEBI limit; no Rs per order figure stated src

Community evidence naming the other provider

- (breeze profile, comparison_claims) yash_r 2024-04-17 rejects Kite Connect on cost ('not in my budget'); cost-only comparison src

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND;

support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src

- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- breeze: Many fields '?' (depth levels, WS connection limit, Greeks, daily depth, continuous futures, basket, multi-leg, redistribution terms, community size); docs fetch was truncated (first 100k of 224k chars read)
- breeze: Limit orders only; no market orders via API
- breeze: Recurring historical/customer-details errors and unanswered GitHub issues
- breeze: Re-check 2026-11-03: static_ip_required 'IP changeable once per week' not supported by cited SEBI FAQ page (static IP mandate from 1 April 2026 confirmed; renewal-frequency FAQ answer not in fetched text); confidence lowered to medium
- breeze: Spot-check 2026-11-03: historical.intervals unsupported by cited page as of 2026-11-03 (documents page historical list shows 1minute/5minute/30minute/1day; '1second' appears only in live candle stream); confidence lowered medium->low
- breeze: Spot-check 2026-11-03: auth.static_ip_required 'IP changeable once per week' unsupported by cited page as of 2026-11-03; confidence already lowered to medium in earlier re-check, not lowered further

Zerodha Kite Connect vs Dhan (DhanHQ API)

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/dhan.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Dhan is the better live-algo API; Kite is the better-documented, better-tooled API with deeper futures history. The two cost about the same for data: Kite Rs 500/month per app src; Dhan Data API Rs 499 src, where the cited pricing page shows Rs 499 with no billing period and no tax line, and "per month + taxes" comes only from a Dhan support article src. Both cap orders at 10 OPS (Kite src; Dhan src), so the gap is in features, not price or speed limits. Published brokerage is also about the same: options Rs 20 per executed order on both, Kite src; Dhan src. Neither page gives an API-specific schedule, so whether those rates apply to API orders as-is is unverified (see Cost).

Acceptance question: what is Kite Connect missing that makes Dhan better?

1. **Automated login.** Kite's official stance is a manual login every day (`auth.totp_automation` ❌) src (Kite developer forum thread, not the docs). Dhan's `generateAccessToken` takes client ID, PIN and TOTP (✅, API v2.5, Feb 2026) src (release notes/changelog), so a headless server can run unattended; community users report intermittent TOTP failures src (community forum). This is the biggest single gap for algo traders.
2. **Market depth beyond 5 levels.** Kite streams 5 bid/ask levels (`live_data.depth_levels` ⚠️) src. Dhan offers 20-level (up to 50 instruments) and 200-level (1 instrument) depth over WebSocket src.
3. **Tick-by-tick feed.** Dhan documents an event-based tick-by-tick feed (✅) src. Kite's feed is not tick-by-tick (`live_data.tick_by_tick` ❌, medium confidence): its ltp/quote/full modes are snapshots, and a Zerodha staff reply says "It is not a tick by tick data", with one or two ticks per second reaching the internet feed src (Kite developer forum, staff reply; the official WebSocket docs say nothing on update frequency).
4. **Options tooling.** Dhan has an option chain endpoint with OI, Greeks and IV (`other.option_chain_api` ✅, `live_data.greeks` ⚠️) src. Kite has no option chain endpoint (`other.option_chain_api` ❌) and no Greeks or IV in any response (`live_data.greeks` ❌) src: both are absent from official docs as of 2026-11-03 (market-quotes, WebSocket and changelog pages checked), medium confidence because the evidence is absence on those pages, not a statement by Zerodha. A Kite user can build a chain from the instruments CSV plus /quote calls (our inference, not stated by the docs). Dhan also serves 5 years of expired options via `/charts/rollingoption` src.
5. **Order safety and bracket logic.** Dhan has super orders with target, stop-loss and trailing SL in one request (`other.bracket_cover_super_orders` ✅) src. Kite documents only cover orders (⚠️) src. Dhan's Exit All (`other.exit_all_kill_switch` ✅, high confidence) is `DELETE /positions`, which exits all active positions and cancels all open orders for the day; a separate kill switch (`POST /killswitch`) does not exit positions, and `POST /pnlExit` exits on a P&L limit src. Kite has no exit-all endpoint (`other.exit_all_kill_switch` ❌, medium confidence): its portfolio docs say positions are exited by placing opposite orders, and no kill-switch terms were found on the Orders, User, Changelog, docs root or support pages checked src, so an emergency exit on Kite means cancelling orders and placing opposite orders one by one (our inference).
6. **Multi-user and ops.** Dhan documents a partner program with per-user consent login (`auth.multi_user` ✅) src, where Kite needs exchange approvals (⚠️) src. Dhan exposes a Modify IP API src, where Kite's static-IP change is dashboard-only src. Kite's IPv6 static-IP support is unverified: the cited static-IP page does not mention IPv6 src. Dhan's daily order cap is higher: 7,000 src vs Kite's 5,000 src.

What Kite still does better: official SDKs in 6 languages src vs Dhan's Python and TypeScript src (GitHub org); docs graded ✅ src vs ⚠️ src; continuous-futures history src; a market-protection parameter src; a charges/contract-note API src; data with no extra add-on src; and a browser basket flow (offsite POST form or Publisher JS plugin, the user confirms on Kite) where Dhan has no basket at all src.

Caveats on Dhan: recurring Data API problems: DH-905 errors src (community forum) and HTTP 500 on historical endpoints src (community forum) in 2025-26, and a 5-6 s feed lag reported against Upstox src (community forum); slow support src (community forum). Dhan's lower latency rests on vendor and staff claims, not benchmarks src (community forum, Dhan staff), src (third-party blog). Both have had repeated outages: Kite src (third-party news); Dhan src (community forum).

Scores

Use case	kite	dhan
Algo (live)	55.4 (#6)	73.3 (#3)
Backtesting	64.4 (#3)	58.8 (#5)
App building	56.7 (#4)	62.9 (#3)
General	58.0 (#4)	64.3 (#3)

Known (non-?) graded features in the general profile: kite 40 of 50, dhan 39 of 49. Kite's scores fell slightly after the 2026-11-03 regrade because tick-by-tick, Greeks, option chain and basket moved from ? (0.25 points) to ❌ (0); brokerage moved from ? to info and is no longer scored. A second Kite fetch the same day moved basket from ❌ to ⚠️ (browser-only basket) and exit-all from ? to ❌, a net gain: algo 55.0 to 56.2 (#7 to #6), backtesting 66.1 to 66.0, app building 60.9 to 61.4, general 59.0 to 59.5. The 2026-11-05 check then moved Kite's sandbox to ? (the Kite Connect FAQ says Zerodha offers no sandbox), giving the current 55.4, 64.4, 56.7 and 58.0. A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	dhan	Dhan 73.3 (#3) vs Kite 55.4 (#6). TOTP login src (release notes/changelog), 20/200-level depth src, tick-by-tick src, super orders src, Exit All via `DELETE /positions` src and option chain src. Kite is not tick-by-tick (staff forum reply, medium confidence src) has no option chain, absent from official docs as of 2026-11-03 (medium confidence src), and has no exit-all endpoint (exit by opposite orders, medium confidence src). Watch the Data API reliability complaints src (community forum).
Backtesting	kite (futures); dhan (options)	Kite 64.4 (#3) vs Dhan 58.8 (#5). Kite has continuous futures and more intervals (3, 10, 30 min) src. Dhan states 5 years of minute data src and offers expired options via rollingoption src, which helps options backtests.
App building	dhan (6.2 points ahead); kite for DX	Dhan 62.9 (#3) vs Kite 56.7 (#4). Dhan has a documented partner program src; Kite has 6 SDKs src, and better docs src; an app can also hand a basket to the user via the offsite basket form or Publisher plugin src. Neither supports browser CORS: Kite (docs root says endpoints are "not cross site request enabled", re-confirmed 2026-11-03) src; Dhan src (our own preflight test, not a docs statement).
General	dhan	Dhan 64.3 (#3) vs Kite 58.0 (#4). Wider feature set at the same data price (Kite src; Dhan src, Rs 499 with no billing period on that page); Kite wins on polish and docs src.

What kite has that dhan is not shown to lack

Feature	kite	dhan
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Historical docs do not mention continuous futures src
`compliance.redistribution_commercial_terms`	⚠️ No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India src	? No redistribution or commercial-use terms found. Docs say Data API has additional charges; partner program applied via form src
`other.charges_brokerage_api`	✅ POST /charges/orders for virtual contract notes (charges per order) src	? No charges or brokerage calculation endpoint found in orders docs; Funds and Statement pages not checked in this research src

Rows where dhan is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ means absent from official docs; the four Kite ❌ rows marked medium confidence (tick-by-tick, Greeks, option chain, exit-all) are absences inferred from the checked pages, see below; basket moved from ❌ to ⚠️ on 2026-11-03.

What dhan has that kite lacks

Feature	dhan	kite
`auth.totp_automation`	✅ generateAccessToken accepts client ID, PIN and TOTP (added in API v2.5, Feb 2026). Community reports intermittent TOTP login failures (Oct 2025) src (release notes for the feature) and src (community forum)	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
`live_data.tick_by_tick`	✅ Described as tick-by-tick event-based data; server pings every 10 s and closes after 40 s without response src	❌ (medium) Not tick-by-tick: snapshot modes (ltp, quote, full); staff forum reply 'It is not a tick by tick data', one or two ticks per second on the internet feed; 2016 post says every 700 ms to 1 s. Official docs silent src (Kite developer forum, staff reply, not docs)
`dev_experience.sandbox_paper`	⚠️ Developer Kit sandbox exists but is explicitly not a paper-trading environment and cannot make external requests src	? Unresolved conflict: Kite's agent-setup file describes sandbox.kite.trade (shared demo credentials, LIMIT-only orders, credentials provided by session organisers), but Zerodha's Kite Connect FAQ says it does not offer a… src
`other.option_chain_api`	✅ POST /optionchain returns strikes with OI, previous OI, greeks, IV, volume and bid/ask; POST /optionchain/expirylist lists active expiries; one unique request per 3 s src	❌ (medium) Absent from official docs as of 2026-11-03: no option chain endpoint on market-quotes, no changelog entry; a chain can be built from the instruments CSV (strike, CE/PE) plus /quote (inference) src
`live_data.greeks`	⚠️ Delta, theta, gamma, vega and IV only via POST /optionchain (REST snapshot, one unique request per 3 s); not in live WebSocket feed src	❌ (medium) Absent from official docs as of 2026-11-03: no Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (market-quotes, WebSocket and changelog checked) src
`other.exit_all_kill_switch`	✅ (high) Exit All API: DELETE /positions exits all active positions and cancels all open orders for the day (no body; returns status and message). Kill switch (POST /killswitch) is separate and does not exit positions; P&L exit via POST /pnlExit src	❌ (medium) No exit-all endpoint: portfolio docs say exits are done by placing opposite orders (only PUT /portfolio/positions, which converts margin product); no kill-switch terms found on Orders, User, Changelog, docs root or support pages checked. Earlier grade ? (low) src

Five of these six are Kite ❌ grades; the sandbox row is Kite ? (an unresolved conflict between Kite's agent-setup file and the Kite Connect FAQ, found in the 2026-11-05 check). `auth.totp_automation` (medium) rests on Zerodha's stated stance in a developer forum thread src. `live_data.tick_by_tick` rests on a Zerodha staff forum reply, not the docs. `other.option_chain_api` and `live_data.greeks` are absent from official docs as of 2026-11-03; medium confidence, because the evidence is absence on the checked pages rather than a Zerodha statement. `other.exit_all_kill_switch` (medium, graded 2026-11-03; ? before) rests on the portfolio page saying exits are placed as opposite orders, plus kill-switch terms being absent from the Orders, User, Changelog, docs root and support pages checked src. Dhan's v2.5 release notes link Exit All to a conditional-trigger anchor rather than the portfolio page, a minor docs inconsistency src (release notes/changelog).

Basket orders (`trading.basket`) are a narrow Kite edge for app builders and no edge for server-side algos. Kite ⚠️ (high, regraded from ❌ medium on 2026-11-03): no REST basket order endpoint, but an app can hand a basket to the user in the browser through the offsite POST form to kite.zerodha.com/connect/basket (no stated maximum) or the Publisher JS plugin (up to 10 entries), and the user confirms on Kite src, src; `POST /margins/basket` is margin calculation only src. Dhan ❌ (high), "no direct basket order API" src. The earlier reading (Kite ❌, offsite basket publisher page not checked) is superseded: that page was checked on 2026-11-03.

Dhan documents it; Kite still ungraded (?)

Feature	dhan	kite
`other.mcp_ai_tooling`	⚠️ dhan-oss/dhanhq-skills: agent skills (Agent Skills standard, not MCP) for orders, portfolio, market data and option chains; 42 stars. Official status not explicitly confirmed (repo sits in dhan-oss org) src	? Zerodha publishes an agent-setup sandbox prompt page; no official MCP server found in notes src

This is a Dhan feature with no Kite grade yet, not a Kite gap; Kite ? means the research has no evidence either way. `other.exit_all_kill_switch` was listed here until Kite was graded ❌ on 2026-11-03; it is now in the table of Dhan features Kite lacks.

Same feature, different strength (both have it, grades differ)

Feature	kite	dhan
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Data API Rs 499 is the paid add-on for market and historical data; a support article says per month plus taxes src, but the pricing page src shows Rs 499 with no billing period or tax line, so the billing period is unverified
`auth.multi_user`	⚠️ Users may build platforms for other Zerodha clients only after obtaining exchange approvals; credentials are for the developer's own use; revenue share possible src	✅ Partner program documented: partners receive partner_id and partner_secret, serve their own users through per-user consent login, each user gets own access token and unique static IP src
`live_data.depth_levels`	⚠️ 5 bid and 5 offer levels src	✅ 200 levels (WebSocket, NSE Equity and Derivatives only, 1 instrument per connection); 20 levels (WebSocket, NSE, up to 50 instruments per connection); 5 levels (REST quote and live feed Full packet) src
`dev_experience.official_sdks`	✅ Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET src	⚠️ Python dhanhq (PyPI; latest release v2.3.0, year not shown on page); TypeScript DhanHQ-js (26 stars, activity not verified); Java pdf-generator is not a trading SDK src
`dev_experience.doc_quality`	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Endpoint docs current to API v2.5 (Feb 2026) with annexure and examples. Gaps: postback retry not documented; no futures chain, position conversion or charges endpoint found; Trade Terminal feature gap raised (GitHub issue #155) src
`compliance.sebi_algo_fit`	⚠️ Client algos within 10 OPS need no exchange registration; above that an exchange Algo ID and strategy write-up are required; Zerodha does not submit empanelment for third-party algo providers; static IP mandatory src	✅ Algo Registration required only above 10 OPS; Algo ID obtained by emailing apihelp@dhan.co; static IP managed via Modify IP API src
`other.bracket_cover_super_orders`	⚠️ Cover orders (multi-leg, second leg spawned by first) documented; bracket or super orders with trailing SL not found src	✅ Super orders (entry, target and stop-loss legs in one request, optional trailing SL); BO and CO product types also available src
`other.market_price_protection`	✅ market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.') src	⚠️ MPP applied automatically to API market orders from Mar 2026 (converted to limit); no MPP parameter found in orders docs src
`other.instrument_master`	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	⚠️ CSV scrip master, compact at https://images.dhan.co/api-data/api-scrip-master.csv and detailed at api-scrip-master-detailed.csv; per-segment GET /v2/instrument/{exchangeSegment}. Refresh cadence not documented src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	dhan
`access_cost.required_account`	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	info A Dhan account (API connects to the user's Dhan account) src
`auth.method`	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	info Three paths: (1) API key and secret, then consent, browser login (tokenId), consume consent for access token; (2) generateAccessToken with client ID, PIN and TOTP; (3) manual access token from Dhan Web src
`auth.token_expiry`	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	info 24 hours from generation; expired tokens cannot be renewed (Renew Token extends an active Dhan Web token by 24 h) src

Feature	kite	dhan
`live_data.ws_instrument_limit`	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	info Up to 5000 instruments per connection; each subscribe message up to 100 instruments; implied 25,000 across 5 connections src
`live_data.ws_connection_limit`	value 3 WebSocket connections per API key src	info 5 WebSocket connections per user; opening a 6th disconnects the first with code 805 src
`historical.intraday_depth`	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	info Last 5 years of minute data; max 90 days per request src
`historical.daily_depth`	value Several years (exact daily lookback not stated in notes) src	info Back to the instrument's listing (inception) src
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	info LIMIT, MARKET, STOP_LOSS, STOP_LOSS_MARKET src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	info NSE_EQ, NSE_FNO, BSE_EQ, BSE_FNO, MCX_COMM, currency segments, IDX_I (index values). SDK v2.3.0 notes mention US global stocks trading src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	info Order APIs 10/s, 250/min, 1000/hr; Data APIs 5/s, 100000/day; Quote APIs 1/s, unlimited per min/hr/day; Non-Trading 20/s; option chain one unique request per 3 s. Errors DH-904 (trading) and 805 (data) src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too. 400 orders/min: unverified (hand-check found it on neither the FAQ nor the exceptions page) src	info 10 OPS (cut from 25 in Mar 2026); strategies above 10 OPS need Algo Registration src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order. 400 orders/min: unverified (not on FAQ or exceptions page). 500 active alerts: unverified (not on cited exceptions page; Alerts docs claim src not hand-checked) src	info 7,000 orders per day; 25 modifications per order; Data API 100000 requests per day; up to 25 consent app IDs per user per day src
`reliability_support.support_channels`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	info Email apihelp@dhan.co (algo and API help); help email referenced in forum posts; chat support (one user called it bot-like); community forum (madefortrade); GitHub issues on DhanHQ-py src
`other.latency_claims`	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	info UNVERIFIED vendor and staff claims: 90% of orders executed within 25 ms (Jun 2025 forum thread); ~40% under 10 ms and ~90% under 20 ms (Dhan staff, Apr 2025); 98% under 20 ms (AlgoMatrix blog, Mar 2025 data) src
`other.account_extras`	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	info User Profile API (v2.2); Funds and Margin, Statement and EDIS in navigation (details not checked in this research). Payout, IPO and mutual fund APIs not found src

Cost

About equal for a data-using algo trader: Kite Connect plan Rs 500/month per app, and the free Personal plan has no market data src. Dhan Data API is Rs 499 and trading APIs are free src; that pricing page shows Rs 499 with no billing period and no tax line, and "per month + taxes" comes only from a Dhan support article src. Kite includes historical data in the plan src.

Brokerage, on each broker's general published rates: equity delivery is Rs 0 on both; intraday equity is 0.03% or Rs 20 per executed order, whichever is lower, on both; options are a flat Rs 20 per executed order on both (Kite src; Dhan src). The one stated difference is futures: Kite charges 0.03% or Rs 20, whichever is lower src, while Dhan's recorded rate is Rs 20 per executed order for F&O, with no 0.03% alternative stated src, so small futures orders may be cheaper on Kite (our inference from the two recorded rates). Kite also has a charges API (`POST /charges/orders`) to compute per-order costs src.

Still unverified on the Kite side:

- API-specific schedule: zerodha.com/charges gives segment rates only, with no API line, so whether API orders pay exactly these rates (or any extra fee or discount) is not found; re-checked 2026-11-03, still no API row on the charges or products pages src. Dhan likewise states no separate API rate src.
- Fee waiver: the Kite profile records Developer Credits (Rs 500, usable to renew the app) from Oct 2026 for paid users generating Rs 2000+ brokerage, citing the charges support article src, but a later profile flag says this waiver was seen only in a search summary on a third-party forum; treat it as unverified.
- Connect yearly price: not found; re-checked 2026-11-03 on zerodha.com/charges, the products/api page, kite.trade and the docs root, which give only Rs 500/month and the free Personal plan src.

Item	kite	dhan
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	⚠️ Trading APIs Rs 0; Data API Rs 499 (cited page gives no billing period or tax line; monthly + taxes unverified) src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	⚠️ Trading APIs free for every Dhan user; live market feed and historical data need the paid Data API subscription src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Data API Rs 499 is the paid add-on for market and historical data; a support article says per month plus taxes src, but the pricing page src shows Rs 499 with no billing period or tax line, so the billing period is unverified
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan src; earlier fee history not verified	⚠️ Included in Data API subscription: Rs 499 (billing period and taxes unverified; see the access_cost.data_addons row) src
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule not found, so no API-order discount or extra fee is stated (unverified; re-checked 2026-11-03) src	info Standard rates: Rs 0 equity delivery; intraday equity Rs 20 or 0.03% of trade value, whichever is lower; F&O Rs 20 per executed order. No separate API rate stated src

Community evidence naming the other provider

- (kite profile, complaints) Frequent rate-limit hits during volatility (secondhand anecdote) src
- (kite profile, comparison_claims) Reddit user moved from Zerodha to DhanHQ for algo trading (secondhand) src
- (dhan profile, praise) Commenter says Kite architecture less suited to latency-critical strategies than Dhan src
- (dhan profile, comparison_claims) Blog: Kite Connect has most comprehensive docs; Kite hits rate limits in volatility (secondhand) src

Open flags from the profiles

- ~~SUPERSEDED~~ kite: Static IP effective date conflicts (2025 vs 2026) src (superseded by: kite: Hand-check 2026-11-03 (static-ip article gives 1 April 2026))
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s src
- kite: Free Personal plan has no market data; live data needs Rs 500/month src
- kite: Daily manual login required; no supported TOTP automation src
- kite: Several 2025-26 outages and no ticket/phone API support src
- kite: Dates for changelog and GitHub releases may be stale or year-less src
- ~~SUPERSEDED~~ kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6 src (superseded by: kite: auth.static_ip_required (IPv6 claim) and kite: Hand-check 2026-11-03)
- ~~SUPERSEDED~~ kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page (superseded: the hand-check found 400/min on neither page; treat it as unverified) src (superseded by: kite: Hand-check 2026-11-03 (400 orders/min on neither page))
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03 src
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03 src

- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03 src
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade src
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention src
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes src
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence src
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not checked in this research src (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified) src
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- dhan: Data API (historical and live feed) paid Rs 499/month; Trading API free (the cited pricing page shows Rs 499 with no billing period; "/month" rests on the Dhan support article) src
- dhan: Static IP mandatory for orders, 7-day edit lock src
- dhan: Recurring unresolved Data API issues in 2026 (DH-905, lag, GitHub #164) src
- dhan: Latency numbers are staff/vendor claims, unverified src
- dhan: Community material mixes Dhan-staff and promotional sources src
- ~~SUPERSEDED~~ dhan: Verify-pass mismatch: cited dhanhq.co/trading-apis gives Data API Rs 499 but does not state a monthly billing period; api_fee confidence lowered to medium src (superseded by: dhan: access_cost.api_fee hand-check 2026-11-03)
- dhan: access_cost.api_fee: unsupported by cited page as of 2026-11-03 (https://dhanhq.co/trading-apis shows Rs 0 trading and Rs 499 data but no monthly period or taxes) src
- dhan: access_cost.api_fee: hand-check 2026-11-03 MISMATCH on "per month" and "+ taxes" wording; Rs 0 / Rs 499 match src
- dhan: other_features Exit All: endpoint page confirmed 2026-11-03 (DELETE /positions on dhanhq.co/docs/v2/portfolio/); release notes point to a conditional-trigger anchor instead, minor docs inconsistency src

Zerodha Kite Connect vs FYERS

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/fyers.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

The Reddit claim (moved from Zerodha to FYERS: free, decent docs, somewhat lower latency, worse WebSocket stability) is mostly borne out on features. FYERS adds free data, official TOTP login, 50-level TBT depth, live Greeks, basket and multi-leg orders, futures and option chains, and a position stream. Kite keeps cover orders (FYERS deprecated BO/CO), alerts that trigger orders, market protection, a charges API and the static-IP dashboard.

Scores

Use case	kite	fyers
Algo (live)	55.4 (#6)	80.2 (#1)
Backtesting	64.4 (#3)	75.9 (#1)
App building	56.7 (#4)	72.7 (#1)
General	58.0 (#4)	75.0 (#1)

Known (non-?) graded features: kite 40, fyers 42 of 50 and 49 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	fyers	FYERS 80.2 vs Kite 55.4. TOTP automation and multi-leg orders are decisive. Watch FYERS Standard limits (100 streamed symbols, 5/s and 5,000/day data) and WebSocket drop reports.
Backtesting	fyers	FYERS 75.9 vs Kite 64.4. Both have continuous futures; FYERS history is free (Prime extends depth). Expired F&O is ⚠️ for both: FYERS has a documented API but limits it on Standard (daily 2 years, intraday 10 requests/day) with full depth on paid Prime; Kite returns only continuous day candles for expired futures.
App building	fyers	FYERS 72.7 vs Kite 56.7. Fresher SDKs and changelog, official MCP.
General	fyers	FYERS 75.0 vs Kite 58.0.

What kite has that fyers lacks

Feature	kite	fyers
`other.bracket_cover_super_orders`	⚠️ Cover orders (multi-leg, second leg spawned by first) documented; bracket or super orders with trailing SL not found src	❌ CO and BO explicitly deprecated (2 Aug 2026); SL and TP now managed on open positions via Manage Positions (PATCH, null cancels); smart orders exist in order placement b… src
`other.market_price_protection`	✅ market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.') src	? Not found in fetched trading docs src
`other.charges_brokerage_api`	✅ POST /charges/orders for virtual contract notes (charges per order) src	? Margin calculators exist, but no endpoint for brokerage, taxes or charges found on the Trading or Calculators pages src

Feature	kite	fyers
other.static_ip_management_api	✅ Self-service in the developer console (dashboard), changes effective instantly, capped at one per calendar week; no API found src	? No API or dashboard endpoint for static IP update found in docs; community describes changing via activating a new app, and IP change limited to once per calendar week src

Rows where fyers is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What fyers has that kite lacks

Feature	fyers	kite
auth.totp_automation	✅ FYERS staff point to a TOTP auto-login flow for daily token generation (community reply); official auth docs do not describe it src	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
live_data.tick_by_tick	✅ Tick-by-tick depth via TBT socket: full snapshot on subscribe, then delta packets; Data Socket update frequency not stated src	❌ Not tick-by-tick: snapshot modes (ltp, quote, full); staff forum reply 'It is not a tick by tick data', one or two ticks per second on the internet feed; 2016 post says every 700 ms to 1 s. Official… src
live_data.greeks	✅ Live Greeks in option chain with greeks=1 (delta, gamma, theta, vega, iv per strike); Greeks also on Expired F&O data via include_greeks src	❌ No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog) src
trading.multi_leg_options	✅ Native multi-leg orders with orderType 2L or 3L; NFO only; all legs same underlying; each leg limit (type 1) with IOC validity; INTRADAY or MARGIN product; no hedge marg… src	? Only cover orders (two-leg with stop) found; native spread/straddle orders not found in notes src
dev_experience.github_activity	✅ FyersDev org: fyers-java-sdk, fyers-go-sdk, fyers-c-sdk last updated 30 Oct 2026; fyers-skills (Python) last updated 11 Jul 2026, 34 stars; fyers-api-sample-code 106 sta… src	? zerodha/pykiteconnect about 1.3k stars, 594 commits; last commit date not retrieved src
other.option_chain_api	✅ Option chain endpoint: Call and Put strikes, OI, Greeks and IV (greeks=1), India VIX, available expiries; strikecount max 50 per side of ATM src	❌ No option chain endpoint; instruments CSV (strike, CE/PE) plus /quote lets you build one yourself (inference); changelog has no option chain entry src
other.futures_chain_api	✅ Futures chain endpoint returning currently available futures contracts for an underlying src	? No futures chain endpoint found; expiries derivable from instrument dump src
other.exit_all_kill_switch	⚠️ Cancel orders in bulk (Order Management) and exit positions (Positions) are documented; no exit-all, cancel-all or kill-switch endpoint is named src	❌ No exit-all endpoint: portfolio docs say exits are done by placing opposite orders; no kill-switch terms found on Orders, User, Changelog, docs root or support pages checked (medium confidence, absence-based) src
other.position_conversion	✅ Positions section covers exiting or converting open positions (product-type conversion) src	? No position conversion endpoint found in notes src
other.closing_auction_session	✅ CAS fields in Quotes (0 where CAS does not apply; indicative_price falls back to last traded price); Market Status Definitions table includes CAS states (13 Aug 2026) src	? No closing auction fields found in notes src
other.mcp_ai_tooling	✅ Official: FYERS MCP, FYERS AI Skills and FYERS GPT listed under AI Integrations; FyersDev/fyers-skills repo src	? Zerodha publishes an agent-setup sandbox prompt page; no official MCP server found in notes src

Same feature, different strength (both have it, grades differ)

Feature	kite	fyers
access_cost.api_fee	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (Trading APIs have no subscription fee; FYERS Prime is per-order, see other.brokerage_per_order) src
access_cost.free_tier	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Standard plan free: Trading APIs, quotes, historical and market data stated free by FYERS support; limits apply (see limits.rest_rate_limits) src

Feature	kite	fyers
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Paid add-ons exist: API Bridge Rs 500+GST/month or Rs 3600+GST/12 months (FYERS clients only; community reports discontinued 5 Mar 2026, order placement via Bridge ended… src
`live_data.depth_levels`	⚠️ 5 bid and 5 offer levels src	✅ 50 levels via Tick-by-Tick socket (NSE equity and NFO only); 5 levels on Data Socket; REST market depth returns bid/ask arrays (level count not stated) src
`live_data.indices`	✅ Index instruments (NIFTY 50, SENSEX) stream with a distinct packet structure src	⚠️ Data Socket navigation lists an 'Indices Update' sub-page, but its content was not fetched; India VIX present in option chain response; index subscription not confirmed src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free: unlimited stock history downloads per day on the Standard plan; plan limits apply to depth, not price src
`dev_experience.changelog_freshness`	⚠️ Last changelog entry 2025-06-12 (Alerts API); older than 6 months as of 2026-11-03 src	✅ Last API update 30 Oct 2026 (Screeners APIs under /api/v3/screeners; fyers-apiv3 v3.2.1). Prior entries 16 Oct, 13 Aug, 6 Sep 2026 src
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	⚠️ Price Alerts section exists (create, read, change, delete, enable/disable); alert-triggered orders not documented src
`other.order_position_stream`	⚠️ WebSocket delivers order postbacks and updates in text mode; position stream not found src	✅ General WebSocket streams real-time order, trade and position updates for the account src
`other.mtf_via_api`	✅ MTF product type; MTF orders added in changelog 2025-01-17 src	⚠️ MTF product accepted in GTT (CNC, MARGIN, MTF) and Java SDK v1.1.0 added MTF order placement; no dedicated MTF order page found src
`other.instrument_master`	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	⚠️ Symbol Master files listed under Market Information (tick size referenced for orders); format and daily refresh cadence not confirmed src
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	✅ Multi-order (basket) sync: array of up to 10 orders per call; endpoint /api/v3/multi-order/sync; 429 on order rate limit src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	fyers
`access_cost.required_account`	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	record FYERS trading account (SEBI broker INZ000008524) plus an app created in the FYERS API dashboard; order placement needs the Order Placement app permission and a static IP src
`auth.method`	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	record OAuth-style: Generate Auth Code (GET) then Validate Auth Code for access token (POST); subsequent requests send header app_id:access_token; own-app (creator-only login) and partner-app flows src
`auth.token_expiry`	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	value Daily; access tokens expire at 6:30 AM IST, generate a new token after 6:30 AM. Longer-expiry tokens not supported (FYERS staff, community) src
`live_data.ws_instrument_limit`	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	value Data Socket total: Standard 100 symbols, Prime 5,000 symbols (over-limit subscription not established); TBT: Standard 1 symbol, Prime 15 symbols (3 connections x 5 symbols); per-connection Data Socke… src
`live_data.ws_connection_limit`	value 3 WebSocket connections per API key src	value 1 WebSocket instance at a time for Data Socket and General WebSocket; TBT: up to 3 connections (Prime), 50 channels per connection src

Feature	kite	fyers
`historical.intraday_depth`	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	value Standard: 1 year (from 2025); Prime: 5+ years (entire available history). Minute history available from 3 Jul 2017 src
`historical.daily_depth`	value Several years (exact daily lookback not stated in notes) src	value Standard: 5 years (from 2021); Prime: 25+ years (entire available history) src
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	record Single order (sync and async) market, limit, SL, SL-M; basket up to 10 orders; multi-leg 2L/3L limit IOC; GTT single and OCO; smart orders; CO and BO deprecated 2 Aug 2026; SL/TP managed on positions… src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	record Documented: NSE CM, NFO, BFO (slicing), NSE equity and NFO (TBT), NFO (multi-leg). MCX order flow implied by a Mar 2026 outage report. BSE cash and CDS not confirmed src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	value Data APIs: Standard 5 req/s, 50 req/min, 5,000 req/day; Prime 10 req/s, 500 req/min, 5,00,000 req/day. Transaction and user-info: Standard 10 req/s, 200 req/min, 1,00,000 req/day; Prime 10 req/s, 500… src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	value 10 OPS, shared across place, modify and cancel (single order docs); SEBI TOPS 10 OPS per exchange/segment (unverified against exchange circular) src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	value Caps exist: 5,000 data requests/day (Standard); 1,00,000 transaction/user-info requests/day (Standard); Expired F&O intraday 10 requests/day (Standard); 50 orders per multi-order margin request; not… src
`reliability_support.support_channels`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	record API support portal (support.fyers.in knowledge base), FYERS community forum (fyers.in/community), GitHub issues on FyersDev repos, FYERS Product Manager replies in forum src
`other.latency_claims`	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	value Unverified user report: 30-35 ms order latency, somewhat better than a prior broker (Reddit, approx. Aug 2025); no FYERS-stated latency or uptime SLA found src
`other.account_extras`	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	value Account section: Profile (GET), Funds (GET), Holdings (GET, equity and MF holdings), Logout (POST), EDIS/DDPI; IPO, separate mutual fund and DP endpoints not listed src

Cost

FYERS Standard is free, with Prime at Rs 15 per executed order for higher limits. Kite needs Rs 500/month per app for market data.

Item	kite	fyers
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (Trading APIs have no subscription fee; FYERS Prime is per-order, see other.brokerage_per_order) src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Standard plan free: Trading APIs, quotes, historical and market data stated free by FYERS support; limits apply (see limits.rest_rate_limits) src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Paid add-ons exist: API Bridge Rs 500+GST/month or Rs 3600+GST/12 months (FYERS clients only; community reports discontinued 5 Mar 2026, order placement via Bridge ended 1 Apr 2026); TrueData market-data add-on (Level 1… src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free: unlimited stock history downloads per day on the Standard plan; plan limits apply to depth, not price src
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	value Futures: Rs 20 or 0.03% per executed order, whichever is lower; options: flat Rs 20 per executed order; statutory charges (STT, GST, exchange, stamp, SEBI, DP) extra. FYERS Prime: Rs 15 per executed order, prepaid src

Community evidence naming the other provider

- (kite profile, comparison_claims) u/yeshie_e moved Zerodha to Fyers: latency somewhat better (30-35ms), API free, docs decent, not a quantum leap src
- (fyers profile, comparison_claims) Not a quantum leap from Kite but improvement in a few areas; websocket stability main downside vs Kite. src

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- fyers: Standard/Prime limits were revised recently (community: prior Standard was 10/s, 200/min, 100k/day); older sources stale
- fyers: TrueData price and attribution unverified
- fyers: Pingoru outage data from search snippets only
- fyers: SEBI algo rule effective date unconfirmed
- fyers: Prime API subscription price not in official docs

- fyers: Re-check: static IP exemption for data-only apps and weekly IP change limit are not stated on the cited create-an-app page (2026-11-03 re-check); confidence lowered to medium
- fyers: auth.static_ip_required: unsupported by cited page as of 2026-11-03 (create-an-app page says only 'one trading app (order placement, static IP required) and any number of non-trading apps (data only)'; no data-only exemption or weekly change limit stated)
- fyers: historical.expired_fno: unsupported by cited page as of 2026-11-03 (page gives no add date, depth or request caps)
- fyers: trading.order_types: CO/BO deprecation date 2 Aug 2026 not found on cited page as of 2026-11-03 (hand-check); confidence low, claim retained

Zerodha Kite Connect vs Groww Trading API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/groww.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

The popular claim that 'Groww includes live data while Zerodha charges Rs 500' is false in this data: Groww's live data and backtesting APIs need a Rs 499/month (or Rs 4,999/year) subscription, and its free trial excludes live data. Both gate app use behind that subscription in practice (Groww's app-creation row is ⚠️ because keys need an active paid Trading API subscription; Kite's is ✅ with the fee graded separately). At similar cost, Groww adds official TOTP login, Greeks, an option chain and FNO history from 2020 with expired contracts. Its TOTP token lifetime is unresolved: the 2026-11-03 recheck confirmed that Groww's curl page says the TOTP flow "Requires daily approval" while its Python SDK page says "No Expiry", a conflict between two official pages. Kite adds postbacks, a sandbox, alerts, slicing, market protection, a charges API, 6 SDKs and much better documented ops.

Scores

Use case	kite	groww
Algo (live)	55.4 (#6)	54.0 (#9)
Backtesting	64.4 (#3)	57.7 (#8)
App building	56.7 (#4)	46.9 (#16)
General	58.0 (#4)	50.0 (#13)

Known (non-?) graded features: kite 40, groww 28 of 50 and 52 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	kite (narrow)	Kite 55.4 vs Groww 54.0. Groww automates login but lacks webhooks, slicing and market protection, as far as the research found; neither has a documented kill switch (Kite ❌, Groww ?).
Backtesting	kite (futures/equity); groww (options)	Kite 64.4 vs Groww 57.7. Groww has FNO candles from 2020 with expired contracts, Greeks and intervals from 1 minute to 1 month.
App building	kite	Kite 56.7 vs Groww 46.9. Groww has one Python SDK and no multi-user evidence.
General	kite	Kite 58.0 vs Groww 50.0.

What kite has that groww lacks

Feature	kite	groww
`auth.multi_user`	⚠️ Users may build platforms for other Zerodha clients only after obtaining exchange approvals; credentials are for the developer's own use; revenue share possible src	? No evidence found src
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Not found on any fetched page src
`compliance.redistribution_commercial_terms`	⚠️ No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India src	? Terms not found in fetched pages src

Feature	kite	groww
`reliability_support.outages`	⚠️ Repeated incidents: 3 Sep 2025 delays, 6 Oct 2025 outage, 5 Dec 2025 Cloudflare outage, 3 Feb 2026 forced logouts and failed logins; status page not verified src	? No API outage reports or status page found; consumer app outage 23 Jan 2024 (resolved) and SEBI settlement over Jan 2024 glitch src
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	? No alerts API found src
`other.order_slicing`	✅ Orders above freeze limit are automatically split into smaller internal orders src	? No order slicing found src
`other.market_price_protection`	✅ market_protection parameter; applies only to MARKET and SL-M orders ('Market protection is only applicable for MARKET and SL-M order types.') src	? No market price protection found src
`other.mtf_via_api`	✅ MTF product type; MTF orders added in changelog 2025-01-17 src	? No MTF via API found src
`other.charges_brokerage_api`	✅ POST /charges/orders for virtual contract notes (charges per order) src	? No charges or brokerage API found src
`other.static_ip_management_api`	✅ Self-service in the developer console (dashboard), changes effective instantly, capped at one per calendar week; no API found src	? Groww whitelists the static IP; no API to manage IPs found src
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	? Basket documented only for FNO margin calculation; no basket order placement API found src

Rows where groww is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What groww has that kite lacks

Feature	groww	kite
`auth.totp_automation`	✅ Yes: TOTP login via pyotp in Python SDK, no manual browser step (TOTP expiry wording conflicts across official pages) src	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
`live_data.greeks`	✅ get_greeks (delta, gamma, theta, vega, rho, iv) and Greeks in option chain src	❌ No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog) src
`other.option_chain_api`	✅ get_option_chain by exchange, underlying, expiry with Greeks, LTP, OI, volume per strike (added 24 Nov 2025) src	❌ No option chain endpoint; instruments CSV (strike, CE/PE) plus /quote lets you build one yourself (inference); changelog has no option chain entry src
`other.futures_chain_api`	⚠️ No futures-chain endpoint; Get Expiries and Get Contracts list FNO contracts (incl. FUT symbols) from 2020 src	? No futures chain endpoint found; expiries derivable from instrument dump src
`other.mcp_ai_tooling`	⚠️ Only community MCP (developerJai/groww-mcp wiki); official MCP referenced by users but not confirmed on official docs src	? Zerodha publishes an agent-setup sandbox prompt page; no official MCP server found in notes src

Same feature, different strength (both have it, grades differ)

Feature	kite	groww
`auth.api_app_creation_open_to_retail`	✅ Kite Connect apps are created self-serve in the developer console (paid Rs 500/month subscription, fee graded separately). Eligibility for non-Zerodha clients not stated. src	⚠️ Needs an active Trading API subscription (paid, Rs 499/month per third-party review) before keys can be used; not open to every account by default. src
`historical.expired_fno`	⚠️ continuous=1 returns day candles for expired NFO/MCX futures; expired instrument_tokens are not retrievable unless the user caches the instrument dump regularly src	✅ Get Expiries and Get Contracts APIs list expired FNO expiries and contracts from 2020; candles by Groww symbol src

Feature	kite	groww
`trading.postbacks_webhooks`	✅ HTTP POST JSON postbacks to postback_url (COMPLETE, REJECTED, CANCELLED, UPDATE); also text-mode updates over WebSocket src	⚠️ No webhooks or postbacks found; order and position updates only via the feed (stream only) src
`dev_experience.official_sdks`	✅ Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET src	⚠️ Python only (growwapi on PyPI: GrowwAPI, GrowwFeed); cURL docs; no other language SDK found src
`dev_experience.doc_quality`	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Per-endpoint docs with samples, but inconsistencies (order list page_size 100 vs 25 on one page); python-sdk/authentication page 404; legacy historical endpoint deprecat… src
`other.instrument_master`	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	⚠️ Instruments endpoint documented (Free Trial; Oct 2025 changelog); file format and refresh cadence not documented src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	groww
`access_cost.required_account`	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	value Groww account plus active Trading API subscription (bought on the docs page) src
`auth.method`	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	value Three flows: web-UI access token; API key+secret (SHA-256 checksum of secret+epoch, daily approval); TOTP (key_type totp); Bearer token plus X-API-VERSION 1.0 src
`auth.token_expiry`	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	value Web-UI token expires daily 6:00 AM (timezone not stated on official page); API key+secret needs daily approval; TOTP expiry conflicts between curl page (daily approval) and python-sdk page (No Expiry) src
`live_data.ws_instrument_limit`	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	value Up to 1000 instruments subscribed at a time (feed; per-connection limit not found) src
`live_data.ws_connection_limit`	value 3 WebSocket connections per API key src	? Per-connection limit not found src
`historical.intraday_depth`	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	value From 2020 via backtesting API (1-5 min max 30 days per request). Legacy deprecated endpoint: last 3 months only src
`historical.daily_depth`	value Several years (exact daily lookback not stated in notes) src	value From 2020 via backtesting API (max 180 days per request); legacy 1-day endpoint full history, 1080 days per request src
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	value MARKET, LIMIT, STOP_LOSS, STOP_LOSS_MARKET; validity DAY; products incl. CNC, MIS, NRML src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	value CASH (equity) and FNO on NSE/BSE; MCX commodities not available src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	value Per type, shared across APIs in the type: Auth 5/s 30/min; Orders 10/s 250/min; Live Data 10/s 300/min; Non Trading 20/s 500/min src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	value 10 per second (250 per minute) for create, modify and cancel src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	value Token endpoint 150 requests per 24h; no daily order cap found src
`reliability_support.supp`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	? No documented API support channel found src

Feature	kite	groww
ort_channels		
other.latency_claims	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	value Groww average latency 65ms per MarketCalls (author-reported, unverified); Groww faster than Dhan per openbroker.in (second-hand, unmeasured) src
other.account_extras	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	value User Profile API (2 Dec 2025); realised_pnl in positions API (8 Nov 2025) src

Cost

Effectively equal: Groww Rs 499/month plus 18% tax (or Rs 4,999/year) vs Kite Rs 500/month per app. The 'Groww Rs 499 vs Zerodha Rs 2,000' comparison is outdated.

Item	kite	groww
access_cost.api_fee	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	⚠️ Rs 499/month + 18% tax (monthly, billed Rs 6,000/yr); yearly Rs 4,999 (~Rs 417/month) + tax; Rs 2000 is an earlier price src
access_cost.free_tier	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	⚠️ Free Trial Rs 0/month: auth, instruments, order place/modify/cancel, positions, holdings, margin; excludes live quotes/LTP/OHLC, option chain, Greeks, backtesting candles src
access_cost.data_addons	✅ none needed; live and historical data included in paid plan at no extra cost src	✅ None separate: live data and historical data bundled in paid subscription; no add-on price found src
historical.cost	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	⚠️ Not in Free Trial; included in paid Rs 499/month plan (no per-call fee found) src
other.brokerage_per_order	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	? No per-order brokerage found; 20% cash-segment margin is trading margin, not an API fee src

Community evidence naming the other provider

- (groww profile, comparison_claims) Groww includes live data while Zerodha charges Rs 500/month for data (Algotest; article contradicts itself in summary) src
- (groww profile, comparison_claims) Kite MCP works while Groww MCP holdings fetch fails for same user src
- (groww profile, comparison_claims) Groww Rs 499 vs Zerodha Rs 2000 for API (outdated, Kite Personal API now free) src

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03

- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- groww: Pricing conflict: Rs 499 vs earlier Rs 2000; plan billing Rs 6,000/yr vs 499x12=5,988
- groww: Historical depth conflict: 3 months (landing, legacy API) vs from 2020 (backtesting API)
- groww: Order list max page_size conflict: 100 vs 25 on the same page
- groww: Official python-sdk/authentication page 404; api-keys page login-walled; PyPI blocked by CAPTCHA
- groww: Reddit, X and Business Standard were blocked; community coverage thin
- groww: Most community praise is pre-API (2023) or promotional
- groww: Re-check 2026-11-03 auth/token_expiry mismatch: curl page (cited) says TOTP requires daily approval and does not state 'No Expiry'; python-sdk page says TOTP no expiry, no daily approval. Confidence lowered to low.
- groww: Re-check 2026-11-03: legacy 3-month historical endpoint claim is cited to backtesting page, which does not mention a legacy endpoint (unverified, not a mismatch)
- groww: live_data.depth_levels unsupported by cited page as of 2026-11-03 (no explicit depth-level count; sample keys 1-5 only)
- groww: Spot-check 2026-11-03 auth.token_expiry: cited curl source contradicts TOTP 'No Expiry'; supporting source found on python-sdk page (official pages conflict). Original claim kept, confidence low. See conflicts.

Zerodha Kite Connect vs Kotak Neo Trade API (Kotak Securities)

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/kotak.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Kotak Neo is free (Rs 0 API, Rs 0 per API order on Trade Free plans) and scriptable via TOTP, but evidence is thin: no published rate limits or daily caps (the daily-cap grade fell from ✅ to ? in the 2026-11-03 refetch-2 round, dropping Kotak from #9 to #14 for algo trading), conflicting historical-data statements (official support says historical is unavailable), no option chain (❌), and the official GitHub repo was archived in Sep 2026. Kite is the far better documented choice; Kotak is the cheaper choice with more unknowns, exactly as the aggregator claim says.

Scores

Use case	kite	kotak
Algo (live)	55.4 (#6)	51.8 (#14)
Backtesting	64.4 (#3)	42.2 (#18)
App building	56.7 (#4)	52.0 (#9)
General	58.0 (#4)	48.2 (#15)

Known (non-?) graded features: kite 40, kotak 28 of 50 and 56 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	kite (by evidence); kotak (by cost)	Kite 55.4 vs Kotak 51.8. Kotak has an order and position feed and TOTP; depth, WebSocket limits, rate limits and daily caps are undocumented.
Backtesting	kite	Kite 64.4 vs Kotak 42.2. Kotak support says historical data is unavailable; other Kotak material conflicts, and the research left lookback depth as ? (unresolved).
App building	kite	Kite 56.7 vs Kotak 52.0.
General	kite	Kite 58.0 vs Kotak 48.2.

What kite has that kotak lacks

Feature	kite	kotak
`live_data.rest_quotes`	✅ /quote up to 500 instruments per call (with depth); /quote/ohlc and /quote/ltp up to 1000 per call src	? quotes(instrument_tokens, quote_type) with types all, depth, ohlc, ltp, oi, 52w, circuit_limits, scrip_details; instruments-per-call limit not stated src
`live_data.depth_levels`	⚠️ 5 bid and 5 offer levels src	? Depth enabled via isDepth flag on subscribe; max levels not stated src
`historical.intervals`	✅ minute, 3minute, 5minute, 10minute, 15minute, 30minute, 60minute, day src	? Conflicting: official support says historical data unavailable; SDK lists historical_data; third-party GitHub claims 1-5 min, 30-60 min and daily ranges (unverified) src
`historical.expired_fno`	⚠️ continuous=1 returns day candles for expired NFO/MCX futures; expired instrument_tokens are not retrievable unless	? Not documented in any fetched source src

Feature	kite	kotak
	the user caches the instrument dump regularly src	
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Not documented in any fetched source src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	? Trade API free at present, but official page says historical data is unavailable, so no historical cost is stated src
`reliability_support.outages`	⚠️ Repeated incidents: 3 Sep 2025 delays, 6 Oct 2025 outage, 5 Dec 2025 Cloudflare outage, 3 Feb 2026 forced logouts and failed logins; status page not verified src	? No status page found; one user report of a stuck order during a cross-broker outage (Oct 2025); aggregator reports no user-listed stability issues; exchange complaint co… src
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	? Not in API docs; delta alerts and predefined-condition features reported only in the mobile app src
`other.order_slicing`	✅ Orders above freeze limit are automatically split into smaller internal orders src	? Not mentioned in SDK README, PyPI page or official docs (freeze-quantity slicing); disclosed_quantity is not slicing src
`other.charges_brokerage_api`	✅ POST /charges/orders for virtual contract notes (charges per order) src	? Only margin_required documented; no charges or brokerage calculator endpoint found src
`other.instrument_master`	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	? Downloadable CSV scrip master via /script-details/1.0/masterscrip/file-paths; refresh cadence not stated src
`other.static_ip_management_api`	✅ Self-service in the developer console (dashboard), changes effective instantly, capped at one per calendar week; no API found src	? No client-side static IP registration API documented; registration is via the Kotak static IP page src

Rows where kotak is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What kotak has that kite lacks

Feature	kotak	kite
`auth.totp_automation`	✅ Login fully scriptable via official SDK totp_login and totp_validate; requires registered TOTP and 6-digit MPIN src	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
`live_data.greeks`	⚠️ Not provided by API; third-party says user must build IV solver and Greeks client-side src	❌ No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog) src
`dev_experience.sandbox_paper`	⚠️ Not in official docs; one third-party review claims a sandbox for back-testing src	? Unresolved conflict: Kite's agent-setup file describes sandbox.kite.trade (shared demo credentials, LIMIT-only orders, credentials provided by session organisers), but Zerodha's Kite Connect FAQ says it does not offer a… src
`dev_experience.github_activity`	⚠️ Official repo Kotak-Neo/Kotak-neo-api-v2 archived and read-only since 2026-09-10; zero open issues; star count and last commit date not captured src	? zerodha/pykiteconnect about 1.3k stars, 594 commits; last commit date not retrieved src
`other.futures_chain_api`	⚠️ Expiries and Search Scrip (with expiry, option type, strike) documented; no dedicated futures chain endpoint documented src	? No futures chain endpoint found; expiries derivable from instrument dump src

Now level after the 2026-11-03 Kite basket fetch (both ⚠️)

Feature	kite	kotak
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	⚠️ Basket orders documented for Neo mobile and web only; not in API SDK docs src

Neither has a REST basket order API: Kite's basket is a browser flow the user confirms on Kite, and Kotak's is in the Neo mobile and web apps only. Kite was ❌ here before the 2026-11-03 fetch of its basket and Publisher pages.

Same feature, different strength (both have it, grades differ)

Feature	kite	kotak
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (Trade API free of cost at present; no subscription charge) src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free API with live quotes for equities, ETFs and indices; no separate data fee stated src
`trading.gtt`	✅ Single and two-leg (OCO) GTT; statuses active/triggered/disabled/expired/cancelled/rejected/deleted; list includes prior 7 days src	⚠️ GTT exists on the Neo platform (trigger validity one year); no Trade API GTT endpoint found (SDK has only GTC/GTD validity values) src
`trading.postbacks_webhooks`	✅ HTTP POST JSON postbacks to postback_url (COMPLETE, REJECTED, CANCELLED, UPDATE); also text-mode updates over WebSocket src	⚠️ Order and position updates via WebSocket order feed (create_order_feed); no webhook or postback documented src
`dev_experience.official_sdks`	✅ Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET src	⚠️ Python: kotakneoapi on PyPI, latest 3.0.13 (2026-10-28), maintained; .NET: Kotak.NeoTradeApi 0.1.0-ci1 on NuGet, provenance unclear; official GitHub SDK repo archived 20… src
`dev_experience.doc_quality`	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Developer portal, sample code and SDK docs exist; many FAQ answers are unavailable or conflicting (order rate, market orders, support numbers, 15 vs 15-20 min onboarding) src
`compliance.sebi_algo_fit`	⚠️ Client algos within 10 OPS need no exchange registration; above that an exchange Algo ID and strategy write-up are required; Zerodha does not submit empanelment for thir… src	✅ Static IP whitelisting from 1 Apr 2026 documented with self-registration; Algo ID appended automatically by Kotak; fintech empanelment path documented src
`other.order_position_stream`	⚠️ WebSocket delivers order postbacks and updates in text mode; position stream not found src	✅ create_order_feed() connects to wss:///realtime for order and position updates src

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	kotak
`access_cost.required_account`	value Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	value Any Kotak Neo trading account; API access requested by the customer src
`auth.method`	value API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	value Access token from API Dashboard, then TOTP login (totp_login) followed by 6-digit MPIN validation (totp_validate) which yields trade token src
`auth.token_expiry`	value access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	? Trade session lifetime not found; WSO2 portal OAuth2 access token defaults to 3600 s (user-changeable). 'Sessions must end before next trading day' not on cited page src
`live_data.ws_instrument_limit`	value 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	? 200 scrips per request (official FAQ); total simultaneous and per-connection limits not confirmed; one third-party review says 30 per request src
`live_data.ws_connection_limit`	value 3 WebSocket connections per API key src	? Not stated in any fetched source src
`historical.intraday_depth`	value Archived data spanning several years (exact minute-candle lookback not stated in notes) src	? Unresolved: Kotak support says 'Historical data is unavailable at the moment'; unverified third-party per-request ranges of 30 days for 1-5 min candles src
`historical.daily_depth`	value Several years (exact daily lookback not stated in notes) src	? Unresolved: Kotak support says 'Historical data is unavailable at the moment' vs third-party multi-year archive claim src
`trading.order_types`	value MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	value L, MKT, SL, SL-M (SDK); product types delivery, intraday, F&O, cover, bracket, AMO, MTF; MARKET orders barred for retail

Feature	kite	kotak
		algo per SEBI (official page conflicts with market-order FAQ title) src
`trading.segments_exchanges`	value NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	value Equity and F&O per official docs; currency and commodity FAQ exists but answer not captured; MCX referenced only in a user report src
`limits.rest_rate_limits`	value Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	? Not published on official page; SDK ships opt-in rate limiter; no per-endpoint figures found src
`limits.orders_per_second`	value 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	value 10 orders per second (official pages); a Kotak guide snippet claims 20 (unverified conflict) src
`limits.daily_caps`	value 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	? No daily order or request cap stated explicitly in any fetched source; regraded from ✅ to ? in refetch-2 (2026-11-03) because no source states a cap either way src
`reliability_support.support_channels`	value No phone or ticket support for Kite Connect API; technical questions go to the community forum src	value Email neo.api@kotak.com with client code for API issues; helpline 1800-209-9191 on FAQ vs 18002099393 on support page (conflict); Ks.apihelp@kotak.com listed by a third party src
`other.latency_claims`	value UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	value Vendor claim: order execution under 50 ms (press release and guide); unverified; aggregator notes it is a claim, not a benchmark src
`other.account_extras`	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	value Holdings, positions, limits and margin APIs; funds add/withdraw via API FAQ exists (answer not captured); direct MF lumpsum or SIP restricted per one user report src

Cost

Kotak Rs 0/month and Rs 0 per API order (Trade Free plans) vs Kite Rs 500/month per app. Quotes of Kite at Rs 2,000/month are outdated.

Item	kite	kotak
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month (Trade API free of cost at present; no subscription charge) src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free API with live quotes for equities, ETFs and indices; no separate data fee stated src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	✅ No paid data add-ons stated; live quotes included in the free API src
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	? Trade API free at present, but official page says historical data is unavailable, so no historical cost is stated src
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	value Rs 0 per API order on Trade Free plans (no API usage charge); exchange, SEBI, GST and statutory charges apply; bracket square-off leg attracts standard brokerage; non-API Trade Free after 30 days: Rs 10 or 0.05% intrada… src

Community evidence naming the other provider

- (kotak profile, praise) Instant pledged margin took under 2 minutes vs Zerodha one trading day; Rs 10 per order vs Zerodha Rs 20 (May 2025) src
- (kotak profile, comparison_claims) Kotak API free while Zerodha Kite Connect quoted at Rs 2,000 per month (secondhand aggregator) src

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- kotak: Free pricing is 'at present' and may change
- kotak: Historical data availability contradicted between support FAQ and SDK listing
- kotak: Many support FAQ answers (GTT, basket, option chain, currency/commodity) were title-only; marked '?'
- kotak: Order rate limit 10 vs 20 per second conflict
- kotak: GitHub SDK repo archived Sep 10 2026 and HS market feed deprecated Sep 15 2026; confirm current feed and SDK
- kotak: WebSocket scrip cap 200 (official FAQ) vs 30 (third-party) per request
- kotak: Spot-check mismatch: the 'sessions must end before the next trading day' rule is not on the cited static-ip-details page (it says sessions do not auto-terminate on IP change); confidence lowered
- kotak: Spot-check 2026-11-03: 'sessions must end before the next trading day' not found on the cited static-ip-details page

Zerodha Kite Connect vs Upstox API

Sources: (internal working notes, not published), (internal working notes, not published), `profiles/kite.json`, `profiles/upstox.json`, `scores.json`. Grades: ✅ pass, ⚠️ partial, ❌ absent, ? not found by the research (treat as unknown, not as absent). As of 2026-11-05.

Bottom line

Upstox beats Kite on cost (free trading and data APIs vs Rs 500/month) and on algo features (30-level depth on Plus, live Greeks, basket and multi-order, kill switch, position conversion, MCP and Agent Skills). Its login automation is ✅: the docs publish a token endpoint that takes the user's PIN and TOTP (Kite is ❌). Kite keeps the edge on docs, continuous-futures history, alerts and SDK breadth (6 languages vs Python confirmed for Upstox). The gap narrowed after the regrade: Upstox lost points on SDKs, outages (now ?) and redistribution terms (now ?), and regained TOTP (✅) after the 2026-11-05 check. Community posts (9-14 Jan 2026) report that Upstox paused new retail API app creation from 5 Jan 2026, with a tentative resumption on 16 Jan. The 2026-11-03 status check (internal working notes, not published) found that none of these posters shows a staff role, and that users reported on 19-20 Jan 2026 that app creation works again; no Upstox staff post or official page confirms either the pause or its end. Decided: `auth.api_app_creation_open_to_retail` stays ⚠️ for Upstox, because there is no official notice that the Jan 2026 pause ended, although user posts of 19-20 Jan 2026 say creation works. The first-pass reading that Upstox's own page contradicted the pause did not hold: that page is silent on it. Kite's app creation is ✅ (self-serve, behind the Rs 500 plan).

Scores

Use case	kite	upstox
Algo (live)	55.4 (#6)	76.1 (#2)
Backtesting	64.4 (#3)	69.2 (#2)
App building	56.7 (#4)	64.9 (#2)
General	58.0 (#4)	71.5 (#2)

Known (non-?) graded features: kite 40, upstox 39 of 50 and 50 graded (general profile). A lower count means more of the score comes from unknowns.

Verdict by use case

Use case	Pick	Why
Algo (live)	upstox	Upstox 76.1 vs Kite 55.4. Kill switch plus Exit All, order stream, market protection, multi-order with auto-slicing, free data. Confirm you can create a new app before you commit: a retail pause was reported in Jan 2026; users said on 19-20 Jan that creation works again, but no official notice confirms it.
Backtesting	upstox (free, narrow); kite (deeper intraday archive)	Upstox 69.2 vs Kite 64.4. Upstox history is free, but the 1-minute lookback is contradictory on its own docs and expired contracts need Plus. Kite has continuous futures and a multi-year archive but needs the Rs 500 plan.
App building	upstox (narrow)	Upstox 64.9 vs Kite 56.7. Upstox: fresh changelog (Aug 2026), MCP and Agent Skills, Payouts/IPO/MF APIs. Kite: better docs, 6 official SDKs (Upstox: Python confirmed only), and app creation that is open today.
General	upstox	Upstox 71.5 vs Kite 58.0.

What kite has that upstox lacks

Feature	kite	upstox
`historical.continuous_futures`	✅ continuous=1 for NFO and MCX futures src	? Not found in pages checked; expired-contract APIs cover individual expired contracts, not a continuous series. src
`compliance.redistribution_commercial_terms`	⚠️ No redistribution or sublicensing; live data cannot be shown publicly; end-user platforms permitted only after exchange approvals; use limited to India src	? No official terms found (terms URL 404). Business integration by email to api@upstox.com. Unverified forum reply says derived signals to Upstox users need no extra appro… [src](https://upstox.com/trading-api/ ; https://community.upstox.com/t/api-usage-clarification/13250)
`reliability_support.outages`	⚠️ Repeated incidents: 3 Sep 2025 delays, 6 Oct 2025 outage, 5 Dec 2025 Cloudflare outage, 3 Feb 2026 forced logouts and failed logins; status page not verified src	? No status page found. One user-reported API outage (Jun 2025, no staff reply) plus unanswered execution complaints (Feb 2026). Not enough to grade as repeated incidents… [src](https://community.upstox.com/t/upstox-api-and-sensibull-not-working/9313 ; https://community.upstox.com/t/complaint-regarding-system-failure-on-3-february-2026/14094)
`other.alerts_api`	✅ Alerts API (added 2025-06-12): simple price alerts and ATO alerts that place an order on trigger; max 500 active alerts per user src	? No price alerts API in the docs index (no explicit statement either way). src
`other.bracket_cover_super_orders`	⚠️ Cover orders (multi-leg, second leg spawned by first) documented; bracket or super orders with trailing SL not found src	? No bracket, cover or super order endpoint in the docs index. Closest items are multi-order, GTT with trailing stop-loss and GTT MULTIPLE. src
`other.streaming_protocol`	✅ Binary packets with documented sizes (ltp 8 B, quote 44 B, full 184 B; depth entries 12 B); SDKs parse them; postbacks and updates use text mode src	? Wire format of the market feed not stated on the feed docs reviewed (no protobuf/JSON statement found). src

Rows where upstox is ? mean the research found no evidence, not that the feature is confirmed missing; ❌ rows are confirmed absences.

What upstox has that kite lacks

Feature	upstox	kite
`auth.totp_automation`	✅ Yes. Upstox documents an API that generates an access token from the app's API key (header) plus the user's PIN and TOTP (POST /v2/totp-login/authorization/token). src	❌ Official stance: users must log in manually at least once each day; unofficial open-source TOTP autologin scripts exist and are not Zerodha-supported src
`live_data.greeks`	✅ Live Greeks/IV via Option Greeks quote endpoint, option_greeks feed mode and full feed. [src](http://upstox.com/developer/api-documentation/market-quote/ ; http://upstox.com/developer/api-documentation/v3/get-market-data-feed/)	❌ No Greeks or IV in any response; OI, OI day high and OI day low are the only derivatives fields (NOT FOUND on market-quotes, websocket, changelog) src
`trading.multi_leg_options`	⚠️ Partial: GTT MULTIPLE is a multi-leg order type (FO/OCO), and multi-order placement exists. No native option-strategy (spread/straddle) order API stated. [src](http://upstox.com/developer/api-documentation/get-gtt-order-details/ ; https://upstox.com/trading-api/)	? Only cover orders (two-leg with stop) found; native spread/straddle orders not found in notes src
`dev_experience.sandbox_paper`	⚠️ Free sandbox, no time limit, separate sandbox app with 30-day token. Supports place, modify and cancel order APIs (V1 and V3) and multi-order only; not usable for live. [src](http://upstox.com/developer/api-documentation/sandbox/ ; https://upstox.com/developer/api-documentation/api-overview/)	? Unresolved conflict: Kite's agent-setup file describes sandbox.kite.trade (shared demo credentials, LIMIT-only orders, credentials provided by session organisers), but Zerodha's Kite Connect FAQ says it does not offer a… src
`other.option_chain_api`	⚠️ Put/Call Option Chain endpoint exists (listed in docs index) and returns strike-wise greeks and premium. OI and IV are separate endpoints, so not in one call. Title-leve… src	❌ No option chain endpoint; instruments CSV (strike, CE/PE) plus /quote lets you build one yourself (inference); changelog has no option chain entry src
`other.futures_chain_api`	⚠️ Get Expiries endpoint lists expiry dates for an underlying. No single futures-chain endpoint returning contracts across expiries found in the docs index. src	? No futures chain endpoint found; expiries derivable from instrument dump src

Feature	upstox	kite
other.exit_all_kill_switch	✅ Exit All Positions endpoint, Kill Switch Status and Kill Switch update endpoints. [src](https://upstox.com/developer/api-documentation/exit-all-positions ; https://upstox.com/developer/api-documentation/get-kill-switch)	❌ No exit-all endpoint: portfolio docs say exits are done by placing opposite orders; no kill-switch terms found on Orders, User, Changelog, docs root or support pages checked (medium confidence, absence-based) src
other.position_conversion	✅ Convert Positions API switches open position margin product between intraday, delivery and MTF (listed in docs index with example code). Restrictions not checked. src	? No position conversion endpoint found in notes src
other.closing_auction_session	✅ CAS support announced Aug 1 2026. Full Market Quotes V3 and full/full_d30 feeds add closing-auction values (indicative price, quantity, imbalance, reference price, CAS e… [src](https://upstox.com/developer/api-documentation/announcements/market-quote-v3-full-quotes/ ; https://upstox.com/developer/api-documentation/announcements/closing-auction-session)	? No closing auction fields found in notes src
other.mcp_ai_tooling	✅ Official: Agent Skills (launched Jun 6 2026, built on upstox-python-sdk), MCP integration page, Claude plugin marketplace, agent quickstart. [src](https://upstox.com/developer/api-documentation/announcements/agent-skills-launch ; https://upstox.com/developer/api-documentation/mcp-integration)	? Zerodha publishes an agent-setup sandbox prompt page; no official MCP server found in notes src

Same feature, different strength (both have it, grades differ)

Feature	kite	upstox
access_cost.api_fee	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page. src
access_cost.free_tier	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.d… src
access_cost.data_addons	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found. [src](http://upstox.com/developer/api-documentation/announcements/websocket-plus/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
auth.api_app_creation_open_to_retail	✅ Kite Connect apps are created self-serve in the developer console (paid Rs 500/month subscription, fee graded separately). Eligibility for non-Zerodha clients not stated. src	⚠️ Creating an app is the documented route and nominally open to retail, but retail app creation was reported paused from 5 Jan 2026 (staff post); no resumption notice foun… src
live_data.depth_levels	⚠️ 5 bid and 5 offer levels src	✅ 30 levels in full_d30 mode (Upstox Plus plan). Standard full mode gives 5 levels. No 20-level mode documented. src
historical.cost	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found). [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
dev_experience.official_sdks	✅ Python (pykiteconnect, latest v5.2.x), Go, Java, PHP, Node.js, .NET src	⚠️ Python confirmed (upstox-python-sdk, latest indexed 2.21.0; Agent Skills built on it). Other official language SDKs not confirmed in current notes, so only one verified… [src](https://pypi.org/project/upstox-python-sdk/2.21.0/ ; https://upstox.com/developer/api-documentation/sdk)
dev_experience.doc_quality	✅ Full endpoint reference, packet layouts, error and rate-limit tables, changelog; some sections thin on exact lookbacks src	⚠️ Broad, example-rich docs with gaps: historical lookback contradicts itself, historical endpoint marked deprecated, static-ip and terms-of-use URLs returned 404, rate-lim… [src](http://upstox.com/developer/api-documentation/get-historical-candle-data/ ; https://upstox.com/developer/api-documentation/static-ip/ ; https://upstox.com/developer/api-documentation/terms-of-use/)

Feature	kite	upstox
`dev_experience.changelog_freshness`	⚠️ Last changelog entry 2025-06-12 (Alerts API); older than 6 months as of 2026-11-03 src	✅ Active announcements log: latest dated entries Aug 1 2026 (CAS support), Jun 6 2026 (Agent Skills, analytics token change). Within 6 months. src
`compliance.sebi_algo_fit`	⚠️ Client algos within 10 OPS need no exchange registration; above that an exchange Algo ID and strategy write-up are required; Zerodha does not submit empanelment for thir… src	✅ Registration flow documented: algos above 10 orders/sec need SEBI/exchange registration and an Algo ID entered in Algo Apps settings; re-registration on logic change; X-… [src](http://upstox.com/developer/api-documentation/announcements/algo-trading-circular/ ; https://upstox.com/trading-api/)
`other.order_position_stream`	⚠️ WebSocket delivers order postbacks and updates in text mode; position stream not found src	✅ Order updates on WebSocket (payload identical to webhook) and a Portfolio Stream Feed API listed in the docs index. Position-specific stream content not confirmed. [src](http://upstox.com/developer/api-documentation/webhook/ ; https://upstox.com/developer/api-documentation/get-portfolio-stream-feed)
`other.instrument_master`	✅ Instrument dump generated once daily (request around 08:30 AM); includes lot_size; last_price not real time; tokens may be reused after expiry src	⚠️ Instruments files available (JSON per segment incl. BOD, MTF, MIS, suspended lists; Instruments and Search Instruments APIs listed in index). CSV instruments file deprec… src
`trading.basket`	⚠️ No REST basket order endpoint; basket only via browser: offsite POST form to kite.zerodha.com/connect/basket and Publisher JS plugin (max 10 entries), user confirms on Kite. POST /margins/basket is margin calculation only src	✅ Multi-order place/cancel with auto-slicing (documented in rate-limit and multi-order pages); Basket Orders advertised on trading-api page. [src] (https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/rate-limiting/)

Same feature, descriptive values (limits, auth, history depth)

Feature	kite	upstox
`access_cost.required_account`	info Zerodha client ID with 2FA TOTP enabled trading account; app created in developer console src	info Upstox trading account plus a created developer app. Retail app-creation pause (Jan 2026 community report) is UNCONFIRMED: the trading-api page shows app creation open and no pause notice; no resumpt… [src](https://upstox.com/trading-api/ ; https://community.upstox.com/t/api-application-creation-pause-for-retail-clients/13477)
`auth.method`	info API key + secret; browser login redirect returns request_token; exchanged via POST /session/token with SHA-256(api_key + request_token + api_secret) checksum src	info OAuth 2.0 authorization-code flow (customer login, single-use code exchanged server-side). Separate read-only Analytics token from the Developer Apps page; Access Token Flow (Beta) lets Initiators ge… src
`auth.token_expiry`	info access_token expires 6 AM the next day (regulatory); request_token lives only minutes src	info Standard access token: regenerate every day. Analytics token: valid 1 year per announcement (1-year wording not on the cited API-overview page, unverified). Static-IP change invalidates existing toke… [src](http://upstox.com/developer/api-documentation/api-overview/ ; http://upstox.com/developer/api-documentation/announcements/analytics-token/)
`live_data.ws_instrument_limit`	info 3000 instruments per WebSocket connection; total cap across connections not stated in notes (3 connections per key) src	info Normal: LTPC 5000 individual / 2000 combined; Option Greeks 3000 / 2000; Full 2000 / 1500. Plus full_d30: 50 individual / 1500 combined. Table values confirmed; 'per connection' wording not on the ci… src
`live_data.ws_connection_limit`	info 3 WebSocket connections per API key src	info 2 concurrent connections per user (Normal); 5 per user (Plus). [src] (http://upstox.com/developer/api-documentation/v3/get-market-data-feed/ ; http://upstox.com/developer/api-documentation/announcements/websocket-plus/)
`historical.intraday_depth`	info Archived data spanning several years (exact minute-candle lookback not stated in notes) src	info Contradictory on the same page: 1-minute = final month before endDate (or six months per NOTE); 30-minute = past year (or six months per NOTE). Unresolved. src
`historical.daily_depth`	info Several years (exact daily lookback not stated in notes) src	info Daily: past year up to endDate. Weekly: previous 10 years. Monthly: last 10 years. No max span per request stated. src

Feature	kite	upstox
`trading.order_types`	info MARKET, LIMIT, SL, SL-M; iceberg (2-50 legs); cover orders; TTL orders src	info MARKET, LIMIT, SL, SL-M. Products I (Intraday), D (Delivery), MTF. AMO and iceberg not stated. src
`trading.segments_exchanges`	info NSE, NFO, MCX confirmed in notes; BSE, CDS and others not confirmed src	? Not stated on the trading-api page; only feed keys (NSE_INDEX) and forum mentions of MCX found. Exchange appendix from the prior grade not in current notes. src
`limits.rest_rate_limits`	info Quote 1 req/s; historical 3 req/s; order placement 10 req/s; all other endpoints 10 req/s; HTTP 429 on excess src	info Order place/modify/cancel/multi-order/GTT (one bucket): regular algo 10/sec, SEBI-registered algo 50/sec; both 500/min, 2000/30min. Other standard APIs (holdings, positions, funds, historical candles… src
`limits.orders_per_second`	info 10 OPS per client trading account (not per app); counts blocked invalid requests too; 400 orders/min not on cited FAQ page (on exceptions page) src	info 10 OPS is the threshold above which SEBI algo registration is required. Registered algos get 50 requests/sec on order endpoints. [src](http://upstox.com/developer/api-documentation/announcements/algo-trading-circular/ ; http://upstox.com/developer/api-documentation/rate-limiting/)
`limits.daily_caps`	info 5000 orders/day per user or API key (all segments); 25 modifications per order; 400 orders/min; 500 active alerts not on cited exceptions page (alerts docs) src	✅ None stated explicitly: rate-limit windows are per second, per minute and per 30 minutes only. Absence on one page; verify. src
`reliability_support.support_channels`	info No phone or ticket support for Kite Connect API; technical questions go to the community forum src	info Developer community forum (community.upstox.com, staff replies); business email api@upstox.com. src
`other.third_party_integrations`	? Community open-source projects found (e.g. login autologin script); OpenAlgo, AlgoTest, TradingView, AmiBroker not verified src	info Tradetron seen in customer reports only. No official integration list found; OpenAlgo, AlgoTest, TradingView, AmiBroker not mentioned in notes. src
`other.latency_claims`	info UNVERIFIED: 40-60 ms order-to-ack on good days (one Reddit poster, Mar 2026) src	info Vendor claim, unverified: non-order API latency under 100 ms. Order throughput advertised as 50 requests/sec. src
`other.account_extras`	? No payout, IPO, mutual fund, EDIS or profile API found in notes src	info Payouts (get payouts, payout modes, payins, request, modify, cancel), IPO (get IPOs, apply, cancel), Mutual Fund (holdings, orders, SIPs), Trade P&L reports, Payments, User profile, Funds and Margin… [src](https://upstox.com/developer/api-documentation/llms.txt ; https://upstox.com/developer/api-documentation/rate-limit/)

Cost

Upstox APIs cost Rs 0/month, with Rs 10 per executed API order (promo, official date 31 Dec 2026) and Upstox Plus gating 30-level depth, 5 connections and expired-contract data. Kite charges Rs 500/month per app for any market data. Older Rs 2,000/1,000 Upstox fee quotes are outdated.

Item	kite	upstox
`access_cost.api_fee`	⚠️ Rs 500 per month per app (Connect plan); free Personal plan exists src	✅ 0 Rs/month. Trading and market-data APIs are free; the Rs 10/order fee is separate (other.brokerage_per_order). Rs 20 multi-client figure unverified on the cited page. src
`access_cost.free_tier`	⚠️ Free Personal plan: order, GTT, alerts, margin and portfolio management; no historical or live market data or WebSocket src	✅ Free tier with live data: all trading and market-data APIs free, free sandbox (place/modify/cancel only). Some features need the paid Upstox Plus plan (see access_cost.d… src
`access_cost.data_addons`	✅ none needed; live and historical data included in paid plan at no extra cost src	⚠️ Paid Upstox Plus plan unlocks expired-instrument APIs, full_d30 (30-level depth, 50 instruments/connection) and 5 WebSocket connections per user. Plus price not found. [src](http://upstox.com/developer/api-documentation/announcements/websocket-plus/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)
`historical.cost`	⚠️ Paid: historical included in Rs 500/month Connect plan; forum thread reports earlier fee of Rs 2000 revised to Rs 500 src	✅ Free for standard historical candles (data APIs free). Expired-contract history requires Upstox Plus (price not found). [src](https://upstox.com/trading-api/ ; http://upstox.com/developer/api-documentation/announcements/expired-instruments-api/)

Item	kite	upstox
`other.brokerage_per_order`	info General rates: equity delivery zero; intraday equity and futures 0.03% or Rs 20 per executed order, whichever lower; options flat Rs 20. API-specific schedule NOT FOUND, so no API-order discount or e… src	info Rs 10 per executed order via individual-account API (promo, valid till 31 Dec 2026 per official page; GTT excluded). Rs 20 per order for multi-client vendor API orders (… [src](https://upstox.com/trading-api/ ; https://community.upstox.com/t/mcx-algo-trading-brokerage-mismatch/13936)

Community evidence naming the other provider

None in either profile.

Open flags from the profiles

- kite: Static IP effective date conflicts (2025 vs 2026)
- kite: Order rate limit claim of 3 req/s on Reddit contradicts official 10/s
- kite: Free Personal plan has no market data; live data needs Rs 500/month
- kite: Daily manual login required; no supported TOTP automation
- kite: Several 2025-26 outages and no ticket/phone API support
- kite: Dates for changelog and GitHub releases may be stale or year-less
- kite: Re-check mismatch: static_ip_required claims IPv4/IPv6 support, but the cited static-ip article does not mention IPv6
- kite: Re-check mismatch: orders_per_second cites the FAQ for 400 orders/min, but the FAQ states only 10 OPS; 400/min appears on the exceptions page
- kite: auth.static_ip_required (IPv6 claim): unsupported by cited page as of 2026-11-03
- kite: limits.orders_per_second (400 orders/min): unsupported by cited page as of 2026-11-03
- kite: limits.daily_caps (500 active alerts): unsupported by cited page as of 2026-11-03
- kite: other_features 'Market protection' added 2026-11-03 from the verbatim docs quote in (internal working notes, not published) (not re-fetched in spot-check); supports the other.market_price_protection grade
- kite: Hand-check 2026-11-03: 400 orders/min not on FAQ or exceptions page extracts (flag above saying it appears on exceptions page is unconfirmed); static-ip article gives effective date 1 April 2026, no IPv6 mention
- kite: live_data.tick_by_tick: confirmed not tick-by-tick via staff forum reply (not official docs); 2026-11-03 notes
- kite: live_data.greeks, other option chain: NOT FOUND on checked docs pages (market-quotes, websocket, changelog); absence-based, medium confidence
- ~~SUPERSEDED~~ kite: trading.basket: no basket order placement endpoint on margins or orders pages; offsite basket publisher page not fetched (superseded by: kite: trading.basket superseded 2026-11-03)
- kite: Brokerage: zerodha.com/charges gives general segment rates only; whether they apply to API orders is NOT FOUND (no API-specific line); Connect yearly price NOT FOUND; Rs 2000 brokerage developer-credit waiver seen only in a search summary on a third-party forum (unverified)
- kite: trading.basket superseded 2026-11-03: earlier flag 'offsite basket publisher page not fetched' is resolved; offsite basket POST and Publisher plugin (max 10) documented; REST basket placement endpoint NOT FOUND; no basket expiry or max orders/quantity stated on basket page src
- kite: Brokerage flag update 2026-11-03: Connect yearly price NOT FOUND on zerodha.com/charges, products/api, kite.trade, docs root (only Rs 500/month; Personal free); API-specific brokerage NOT FOUND; support charges article URLs 404; Rs 2000 developer-credit waiver still only from support article already cited src
- kite: other.exit_all_kill_switch: no dedicated exit-all endpoint (portfolio docs say place opposite orders); kill-switch terms NOT FOUND on Orders, User, Changelog, docs root, support Kite category and support search; absence-based, medium confidence src
- kite: other.browser_cors: docs root confirms 'not cross site request enabled' (same claim, re-confirmed); allowed origins/CORS headers NOT FOUND src
- upstox: Retail API app creation was reported paused/disabled in Jan 2026 (community staff); UNCONFIRMED and contradicted by https://upstox.com/trading-api/ (app creation shown open, 2026-11-03). Treat the pause as unconfirmed, not as a current restriction

- upstox: Rs 10/order promo end date conflicts across sources (31 Dec 2026 official; 31 Mar 2026 and 30 Sep 2026 elsewhere)
- upstox: Historical 1-minute and 30-minute depth is internally contradictory on the official page
- upstox: Rate-limit page URL variants: /rate-limiting/ cited in docs, /rate-limit/ returned 404 in one fetch while cited in another; re-verify
- upstox: Static-ip and terms-of-use doc URLs returned 404; no redistribution terms found
- upstox: 8 fields are '?': tick_by_tick, continuous_futures, multi_leg_options, segments_exchanges, doc_quality, github_activity, redistribution_commercial_terms, community_size
- upstox: Re-check 2026-11-03: cited algo-trading-circular page says standard read-only APIs (holdings, positions, funds, historical candles) are NOT restricted by static IP; the claim that Analytics-token account APIs need a registered static IP is unsupported by that page; static_ip_required confidence lowered to medium
- upstox: Spot-check 2026-11-03: 'retail app creation paused Jan 2026' is now doubtful: Upstox's own trading-api page shows a Start Building button and no pause notice; community thread only says tentative resumption 16 Jan, unconfirmed; required_account confidence lowered to low
- upstox: Spot-check 2026-11-03: unverified sub-clauses: Rs 20 multi-client fee, Analytics token 1-year validity, 'per connection' WebSocket wording
- upstox: access_cost.required_account: pause claim not on trading-api page; sourced to community thread
- upstox: access_cost.required_account: current app-creation status unconfirmed (no resumption notice found)