

API Endpoint Framework: Velo (Pro), Dune Analytics, CoinGecko Pro, DefiLlama Pro

Velo Pro API (Aggregated Crypto Data)

Velo is a paid API service (\$199/mo) providing cross-exchange crypto market data (futures, options, spot) in high resolution ¹ ². With a Pro API key, you can query historical and real-time data across multiple exchanges and instruments. Key endpoint categories include:

· Helper Endpoints:

- /status Check API key status (and quota usage if applicable).
- /futures List all supported futures contracts (with exchange and symbol identifiers) ³ .
- /options List all supported options (e.g. tickers or symbols) 3.
- /spot List all supported spot trading pairs (exchange and pair info) ³. (The above are public endpoints to discover available products/histories; no auth needed)

· Data Endpoints:

- /rows Core data query endpoint. Returns time-series rows of market data (in CSV format) for a given type (one of 'futures', 'options', 'spot') 4. You can specify parameters:
 - exchanges (one or more exchange names, comma-separated),
 - products (specific instruments or trading pairs), or coins (asset symbols) *if both are given*, products *takes priority* 5 ,
 - o columns which data fields to retrieve (price, volume, open interest, etc.),
 - begin and end UNIX timestamps in milliseconds to define the time range,
 - resolution interval resolution (e.g. '1m' for 1-minute) 6.

Output: CSV text with a timestamp column and the requested data columns. For example, a query for spot prices might return:

```
time,close_price
1704057600000, 29350.12
1704057660000, 29347.09
... (up to 22,500 rows per request) ...
```

Note: Each request is capped at 22,500 data points; if you need more history, implement batching/pagination by splitting the time range 7. The available columns for each market type include typical metrics like open_price, high_price, low_price, close_price, coin_volume, dollar_volume, funding_rate, etc. (full lists are documented 8 9).

- /terms Options term structure (implied volatility skew) data. Accepts coins parameter (e.g. coins=BTC,ETH) and returns the latest options term structure for those assets in CSV format (each term's IV and skew values).
- /caps Market capitalization data. Accepts coins list and returns latest market cap for each specified coin (CSV) 11 . This is useful for quickly fetching current market cap and other aggregated stats.

News Endpoint:

• /news - Returns recent crypto news and on-chain event headlines (in JSON). You can include an optional begin=<timestamp> to fetch news after a certain time 12 13 . Each news object contains fields like id, time (publish timestamp), headline, source, priority (importance), related coins, summary (often in Markdown), and link 14 . Example JSON news item:

```
{
  "id": 55,
  "time": 1704085200000,
  "headline": "Hello world",
  "source": "Velo",
  "coins": ["BTC"],
  "summary": "# Hello world",
  "link": "https://velodata.app"
}
```

The News API also supports WebSocket streaming for live updates (useful if building real-time dashboards of news sentiment).

Authentication: Velo uses HTTP Basic Auth. Provide your API key via basic authentication with username "api" and password as your API key 16. For example, with cURL:

```
curl -u "api:<YOUR_API_KEY>" "https://api.velo.xyz/api/v1/caps?coins=BTC,ETH"
```

In code, set the Authorization header accordingly. (No separate API key parameter in the URL – the key **must** be passed via basic auth or Velo's official SDK clients.)

Example – Fetching Historical Price Data: To retrieve, say, the last 24 hours of 1-minute BTC spot prices from a specific exchange, you could call:

```
GET https://api.velo.xyz/api/v1/rows?type=spot&exchanges=coinbase&products=BTC-
USD&
    columns=close_price&begin=1703980800000&end=1704067200000&resolution=1m
    (with Basic Auth header "api:YOUR_API_KEY")
```

This returns a CSV where each row has a timestamp and BTC-USD closing price each minute within the range.

Rate Limits & Usage: Velo's documentation does not explicitly publish a rate limit, but given the Pro tier, it's designed for high-volume use. The /status endpoint can be used to check your key's status (and possibly remaining quota) 17. Expect that heavy usage is allowed (as the subscription is paid), but for extremely large data pulls you should implement request batching due to the 22.5k-row limit per call 7. If you need full history (beyond 3 months), ensure you have the yearly subscription (which unlocks the entire historical dataset) 1.

Data Schema & Field Explanations: Velo returns data in a structured table format (CSV or as Python/Node structures via their SDK). Common fields: - Time - UNIX epoch in milliseconds (all data points time-keyed in UTC). - Price fields: open_price, high_price, low_price, close_price - OHLC prices for the interval 18 . - Volume fields: coin_volume (volume in base asset units), dollar_volume (volume in USD) 19 . - Trade counts: buy_trades, sell_trades, total_trades - number of trades in that **Interest** interval 19. Open (futures/options): e.g. coin_open_interest_close, dollar_open_interest_close - open interest at close of interval (in coins and USD) 20 . - Funding rates (futures): funding_rate (most recent interval funding, normalized to 8h) and funding_rate_avg 21. - Options-specific: implied volatilities (iv_1w, iv_1m, ... for 1-week, 1month, etc), skew, option Greeks and aggregated volume/notional values 22 23 . - Market cap (from / caps): likely returns columns like coin, time, market_cap for each requested coin (with time being the timestamp of the latest update, and market cap in USD).

Note: Velo's API is flexible but raw – it returns data as CSV text for efficiency. In a Replit environment, you might use Python's requests to GET data and $\boxed{\texttt{csv}}$ or pandas to parse it, or use Velo's official Python client ($\boxed{\texttt{velodata}}$ library) for convenience $\boxed{\texttt{24}}$. The data can then be fed into your dashboard charts.

Dune Analytics API (Pro Level)

Dune Analytics offers a powerful API to query blockchain data using SQL or pre-built endpoints. With a Dune API key (available to Dune Pro/Business users), you can programmatically run queries and retrieve results for on-chain metrics, token analytics, smart contract data, and more ²⁵. The API is divided into **low-level SQL endpoints** (fully customizable queries) and **high-level preset endpoints** (pre-built datasets requiring no SQL). Key components:

- **Custom Query & SQL Endpoints:** These allow you to execute arbitrary Dune **SQL queries** and get results:
- Query Execution: POST /api/v1/query/{query_id}/execute Runs a saved Dune query by ID 26 . You supply the query ID (which corresponds to a query on dune.com) and Dune returns an execution_id.
- **Get Results:** After execution, retrieve results via GET /api/v1/execution/{execution_id}/ results (with optional ?download or format flags). Results can be fetched in JSON (default) or CSV. Alternatively, Dune provides a convenience endpoint GET /api/v1/query/{query_id}/ results for recent cached results if available.

- **Query Management:** There are also endpoints to list or create queries (/api/v1/queries), manage query definitions, and even set up **webhooks** for query result updates ²⁷ useful for scheduling updates to your dashboard.
- Pagination: Dune queries that return large result sets will be paginated. The results JSON includes next_offset and a next_uri if not all rows are returned in one go 28. You can append ? limit=<N>&offset=<M> to the results endpoint to page through. By default, the API might return the first 100 rows (for example) you can request a larger limit up to some maximum (commonly 1000) per call. The presence of next_uri in the response indicates more data is available 29.

Example: Running a custom query:

```
# Start execution of a query (POST request)
curl -X POST "https://api.dune.com/api/v1/query/123456/execute" \
    -H "X-DUNE-API-KEY: <YOUR_API_KEY>"
```

This returns a JSON with an execution_id and an initial status (e.g. QUEUED or RUNNING). You would then poll:

```
curl -X GET "https://api.dune.com/api/v1/execution/<EXECUTION_ID>/results" \
   -H "X-DUNE-API-KEY: <YOUR_API_KEY>"
```

If the query has completed, you'll get a JSON state: QUERY_STATE_COMPLETED and a result object. If not, you may get a state like QUERY_STATE_RUNNING and need to retry after a short delay.

- **Preset Data Endpoints:** Dune provides **ready-made endpoints** for popular data without writing SQL. These are essentially **curated queries** maintained by Dune, covering topics such as:
- Decentralized Exchange stats (DEX): e.g. GET /api/v1/dex/pairs/{chain} Returns metadata and stats for all token pairs on a given chain (24h/7d/30d volumes, liquidity, etc) 30 31. There are also endpoints like /api/v1/overview/dexs and /api/v1/overview/dexs/{chain} for aggregated DEX volumes 32 33, and /api/v1/summary/dexs/{protocol} for a specific DEX's volume history 34.
- **NFT & Markets:** GET /api/v1/markets Market share of NFT marketplaces vs DEXs (for instance), or endpoints to track NFT trading stats (if provided). (Dune's "Markets" preset covers cross-market metrics like NFT vs DEX volume share 35 .)
- **Trending Contracts:** GET /api/v1/contracts Lists trending smart contracts on EVM chains (based on activity in last 30 days) 35.
- **EigenLayer, Farcaster, Projects:** Various endpoints for specialized data (EigenLayer restaking metrics, Farcaster social data, specific DeFi project dashboards, etc) ³⁶.
- **Projects/Protocols:** Under "Projects" presets, you may find endpoints for specific protocols (Dune sometimes publishes API endpoints for popular protocols' stats).

Each preset endpoint has its own path. For example, the **DEX pair stats** endpoint above returns a JSON like:

```
{
    "execution_id": "01H...Q1",
```

```
"state": "QUERY STATE COMPLETED",
  "result": {
    "metadata": {
      "column names": ["token pair", "one day volume", "usd liquidity", ...],
      "row_count": 10,
      . . .
    },
    "rows": [
      {
        "token pair": "USDC-WETH",
        "one day volume": 12345678.9,
        "usd_liquidity": 50123456.7,
        "...": "..."
      },
      { ... more rows ... }
    1
  },
  "next_uri": "https://api.dune.com/api/v1/execution/01H...Q1/results?
offset=10&limit=10"
}
```

(In many cases, the rows might be an array of objects as above, or an array of arrays with separate column_names - Dune's API recently moved toward returning an array of objects for preset endpoints, as shown, making it easier to interpret.) The metadata section describes the result set: column names, types, number of rows, etc 37. If there are more than 10 rows in this example, next_uri provides the link to fetch the next page.

• Data Management Endpoints: Dune also allows uploading custom data tables and managing them (for advanced use) 38. This is likely outside the scope of a read-only dashboard, but if needed, Pro API keys can create tables via /api/v1/table/{name} etc. You can typically ignore these for visualization purposes unless you plan to push your own data to Dune.

Authentication: All Dune API calls require an API key in the header or query. **Use the HTTP header method:** include X-DUNE-API-KEY: <YOUR_API_KEY> in each request header ³⁹ ⁴⁰. (Alternatively, you can append ?x-dune-api-key=<YOUR_API_KEY> to the URL, but this is less secure and not recommended for client-side requests ⁴¹ ⁴².) API keys are generated from your Dune account settings (each key is scoped to either your user or a specific team context) ⁴³. Keep your key secret.

Rate Limits: The Dune API is rate-limited by your plan. For example, Free plans might have ~15 low-priority and 40 high-priority requests/minute ⁴⁴, while paid **Premium** plans allow up to ~1000 requests/minute ⁴⁵. Pro users typically get a significantly higher rate limit and monthly query executions. Check Dune's docs or FAQ for your specific plan's limits ⁴⁵. Dune classifies queries as *heavy* or *light*; simple preset calls may count differently than full query executions. Always handle HTTP 429 responses (rate limit exceeded) by backing off or reducing frequency.

Pagination & Query Size Limits: Dune enforces an 8 GB maximum result size for any query ⁴⁶. For very large query results, consider adding LIMIT clauses in SQL or filtering. The API's pagination parameters

(limit and offset) allow you to retrieve large result sets in chunks 28. For example, if a query returns 10k rows, you might fetch rows and loop through offset=0,1000,2000,... until all rows are fetched.

Data Schema: Since Dune is flexible, the schema depends on the query. In general: - Preset endpoints return structured JSON with result.metadata (column names, data types, row count, etc) and result.rows (array of results). Each row might be an object with key-value pairs for each column (as shown above), or an array aligned with column_names . Check the docs for each endpoint's exact format. -**Timestamp** formats: Dune often returns timestamps as ISO strings "2024-12-20T11:04:18.724Z") or Unix time depending on the query. - Numeric types: Large integers (like token amounts) may be returned as strings to avoid precision issues (common in JSON APIs). -**Example fields:** A result for a DEX volume query might include fields like volume_usd , volume_eth , trade_count , etc. A guery for active users might return | user_address | and | last_active_date |. Always refer to the column names in metadata.column_names for what each index in rows represents 37

Using Dune's API in Replit is suitable if you want to display custom on-chain analytics or data not readily available via other APIs. For instance, you could create a Dune query for "daily active users of Protocol X" or "smart contract call counts for Contract Y" and then use the Dune API to fetch those results periodically for your dashboard. The **Dune client libraries** (available in Python, JavaScript, etc.) can simplify some tasks 47

48, but simple fetch / requests calls with the API key header work just as well.

CoinGecko Pro API (Crypto Market Data)

CoinGecko provides a comprehensive REST API for cryptocurrency market data. The Pro API (paid plans) offers the same endpoints as the free API plus additional data (e.g. on-chain DEX data) and higher rate limits/quotas. All endpoints return **JSON** data. The base URL for Pro is https://pro-api.coingecko.com/api/v3/ 49 . Below is a categorized map of key endpoints:

· Ping & Key Info:

- GET /ping Simple service ping. Returns [{"gecko_says": "(...)"}] to confirm the API is reachable 50.
- GET /key Account API usage info. Returns your usage and rate-limit status 50. Use this to monitor monthly credits, remaining calls, etc.

· Simple Data:

- GET /simple/price Get current price of one or more coins in one or more currencies ⁵¹. You supply coin IDs and target currencies (e.g. ids=bitcoin,ethereum & vs_currencies=usd,eur). Returns a JSON mapping coin IDs to prices, e.g. {"bitcoin":{"usd":29000, "eur":27000}, "ethereum":{"usd":1800,...}}
- GET /simple/token_price/{id} Price for tokens by *platform contract address*. For example, / simple/token_price/ethereum?contract_addresses=0xdAC...&vs_currencies=usd gives price for a specific ERC-20 token 52.

- GET /simple/supported_vs_currencies List of currency codes supported (for conversion rates) 53 .
- Coins (Market Data & Metadata): (These are among the most used endpoints)
- GET /coins/list List all coins with their id, symbol, and name ⁵⁴. The id here is CoinGecko's internal ID (used in other endpoints).
- GET /coins/markets Market data for a list of coins 55. You provide parameters like vs_currency (e.g. usd), optional ids (list of coin IDs to limit the scope), order (e.g. market_cap_desc), per_page and page for pagination, and price_change_percentage to include 1h/24h/7d change percentages. The response is an array of objects, each with fields:

```
    id, symbol, name - identifiers,
    image - URL of coin's logo,
    current_price, market_cap, total_volume, circulating_supply, etc.,
    high_24h, low_24h, price_change_24h, price_change_percentage_24h (and similarly for 7d etc if requested) - price movement stats,
    market_cap_rank - rank by market cap,
    other fields like ath (all-time-high) and atl values with dates, etc.
    Example (truncated) for one coin:
```

```
"id": "bitcoin",
  "symbol": "btc",
  "name": "Bitcoin",
  "image": "https://assets.coingecko.com/coins/images/1/large/
bitcoin.png?...",
  "current_price": 29012.45,
  "market cap": 564839000000,
  "market cap rank": 1,
  "total_volume": 34215000000,
  "high 24h": 29350.12,
  "low_24h": 28500.34,
  "price_change_24h": 512.11,
  "price_change_percentage_24h": 1.80,
  "price_change_percentage_7d_in_currency": 3.5,
  "circulating_supply": 19400000,
  "total supply": 21000000,
  "ath": 69045,
  "ath_date": "2021-11-10T14:24:11.849Z",
  "...": "..."
}
```

This endpoint is paginated (per_page up to 250; use page=2 etc. for more coins). Pro tip: if you need **all** coins' data, iterate through pages or use the coins/list then query in batches.

- GET /coins/{id} Full coin data by ID ⁵⁶. Returns a detailed JSON for the coin: market data, community data, developer data, descriptions, links, tickers, etc. This is quite extensive (including fields like block_time), hashing_algorithm, categories, and even localization of the description in multiple languages). Use this for coin metadata and extended stats.
- GET /coins/{id}/tickers All trading pairs for the coin on various exchanges (with prices, volume, etc) ⁵⁷.
- GET /coins/{id}/history?date=DD-MM-YYYY Historical data for a specific date 58 (a snapshot of price, market cap on that date).
- GET /coins/{id}/market_chart?vs_currency=X&days=N Historical daily chart data (price, market cap, volume) for the past N days 59 . days can be a number or the string max for full history. The response has prices , market_caps , total_volumes as arrays of [timestamp, value] pairs (timestamps in milliseconds) perfect for plotting time-series.
- GET /coins/{id}/market_chart/range?vs_currency=X&from=UNIX_TIME&to=UNIX_TIME Same as above but for a custom date range 60 . Use this if you need specific time windows.
- GET /coins/{id}/ohlc?vs_currency=X&days=N Candlestick OHLC data for the past N days

 61 . Returns an array of [time, open, high, low, close] for each day (or each hour if small range).
- GET /coins/{id}/ohlc/range?... OHLC for a custom range (if supported) 62 .
- **Supply endpoints:** For certain coins, Pro API provides supply over time:
 - $\circ \ \ \, \big[\ \ \, \text{/coins/{id}/circulating_supply_chart?days=N} \big] \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and} \ \ \big[\ \ \, \text{/.../range} \big] \text{historical circulating supply} \\ \ \, \text{(and)} \ \ \, \text{(and)}$
 - o /coins/{id}/total_supply_chart?days=N (and range) historical total supply 64.
- Coin by Contract: If you have a token contract address on a known chain, use /coins/
 {platform_id}/contract/{contract_address} to get that token's CoinGecko data 65
 (including its CoinGecko ID if it exists). Historical chart endpoints exist for contracts too 66.

Categories & Listings:

- GET /coins/categories All coin categories (DeFi, NFTs, layer1, etc) with their market caps and volumes ⁶⁷ .
- GET /coins/categories/list Just the list of category names and IDs 67.
- GET /coins/top_gainers_losers?duration=daily (*Pro-only*) Top 30 gainers and losers for a given duration (e.g. daily, weekly) 68.
- GET /coins/list/new Latest listed coins (last ~200 new coins) 68.

• Exchanges & Derivatives:

• GET /exchanges – List of exchanges with basic info (id, name, year established, etc) and latest volume data 69.

- GET /exchanges/{id} Details about a specific exchange (including centralized vs decentralized, trust score, trade volume breakdown) 70.
- GET /exchanges/{id}/tickers All trading pairs on that exchange 71.
- GET /exchanges/{id}/volume_chart?days=N Daily volume history (in BTC or USD) for that exchange 72 (/volume_chart/range for a specific date range 72).
- GET /exchanges/list ID and name of all exchanges (for mapping).
- Similar endpoints exist for **Derivatives**:
 - GET /derivatives List current futures/options tickers and prices 73.
 - GET /derivatives/exchanges List of derivatives exchanges and aggregated data (open interest, 24h volume, etc) 73.
 - GET /derivatives/exchanges/{id} Details and instruments on a specific derivatives exchange 74.
 - GET /derivatives/exchanges/list All derivatives exchange IDs and names.
- NFTs (Beta): (Pro plans only)

CoinGecko provides NFT collection data:

- GET /nfts/list All supported NFT collections (with id, name, asset_platform_id, contract address) 75.
- GET /nfts/{id} Details for an NFT collection (floor price, market cap, volume, number of items, etc) 76.
- GET /nfts/{id}/market_chart?days=N Historical floor price and volume chart for that collection 77.
- GET /nfts/{id}/tickers Latest floor prices on each marketplace (e.g. OpenSea) 78 .

 (You can also query by contract address via /nfts/{platform_id}/contract/
 {contract_address} similarly to coins.)

· Global & Misc:

- GET /global Global crypto data (total market cap, volume, market dominance percentages, number of active coins and markets) 79.
- GET /global/decentralized_finance_defi Global DeFi metrics (DeFi market cap, DeFi volume, etc) 80 .
- GET /global/market_cap_chart?days=N Global total market cap chart over last N days 81
- GET /exchange_rates Current fiat and crypto exchange rates (value of 1 BTC in many currencies) 83 .
- GET /search Search for coins, categories, and exchanges by name 84.
- GET /search/trending Top trending search results (returns currently hot coin IDs on CoinGecko) 85.
- GET /companies/public_treasury/{coin_id} Companies holdings for BTC or ETH 86 (e.g., shows how much BTC public companies hold, if querying BTC).

- On-Chain DEX Data (GeckoTerminal integration, Beta): These endpoints (prefixed with /onchain) give DeFi DEX and liquidity pool data, which is a newer addition to CoinGecko Pro:
- **Networks & Dexes:** GET /onchain/networks List supported blockchain networks (IDs) in GeckoTerminal 87 . GET /onchain/networks/{network}/dexes List DEXes on a given network 88 .
- **Pools:** GET /onchain/networks/{network}/pools Top pools on that chain (by liquidity) 89 . GET /onchain/networks/{network}/new_pools Newly added pools on that chain 90 . GET /onchain/networks/{network}/dexes/{dex}/pools top pools on a specific DEX 91 . Specific pool data: GET /onchain/networks/{network}/pools/{pool_address} detailed info for a pool (reserves, volume, fees, etc) 92 . You can also batch: GET /onchain/networks/{network}/pools/multi/{pool1}, {pool2}, . . . to fetch multiple pools at once 92 .
- Tokens: GET /onchain/networks/{network}/tokens/{token_address} token data on that chain (price, liquidity, volume across pools) 93 . Batch: /tokens/multi/{addr1}, {addr2},... 93 . GET /onchain/networks/{network}/tokens/{token_address}/info token metadata (name, symbol, links, etc) 94 .
- **Prices & OHLCV:** GET /onchain/simple/networks/{network}/token_price/
 {token_address} current price of a token by address 95 . GET /onchain/networks/
 {network}/pools/{pool_address}/ohlcv/{period} historical OHLCV for a pool (period could be daily etc) 96 .
- **Trades:** GET /onchain/networks/{network}/pools/{pool_address}/trades recent trades in that pool (past 24h or specified range) 97 .
- Trending & Search: GET /onchain/networks/trending_pools (across all chains) and / onchain/networks/{network}/trending_pools trending liquidity pools 88.

 GET /onchain/search/pools?query=XYZ search pools by name/token. GET /onchain/pools/trending_search top searched pool queries 98.
- Categories: GET /onchain/categories All DeFi categories/tags available in GeckoTerminal ⁹⁹ . GET /onchain/categories/{id}/pools all pools under a specific category (e.g., "Stablecoin Pools") ⁹⁹ .
- These on-chain endpoints let you build dashboards for DEX liquidity, yield farming, etc., similar to what DefiLlama offers, but via CoinGecko's data (powered by GeckoTerminal). **Note:** Include the onchain path and your API key for these calls 100 101.

Authentication & API Keys: For **Pro API**, you must include your API key with each request. CoinGecko supports two methods ⁴²: 1. **HTTP header** – **Recommended** for security. Send x-cg-pro-api-key: YOUR_API_KEY in the request header ¹⁰². 2. **Query parameter** – Append ? x_cg_pro_api_key=YOUR_API_KEY to the URL ¹⁰³. (This is easier for quick tests, but be careful not to expose the key in client-side code or URLs.)

Ensure you use the **Pro base URL** (pro-api.coingecko.com/api/v3). If you call the regular api.coingecko.com with a key, it won't be recognized. It's good practice to keep your key on the backend (e.g., in Replit's secrets) and proxy requests if building a public web dashboard 104.

Rate Limits & Pagination: Paid plans come with higher rate limits and monthly credit allocations. For instance, CoinGecko's **Pro** plan might allow on the order of hundreds of calls per minute and hundreds of thousands of calls per month (exact numbers depend on the plan; CoinGecko's Developer Dashboard shows your usage and limits). Every request (status 200) counts as one credit towards your monthly allotment 105.

Even a 4xx/5xx error counts against the **per-minute** rate limit (though not against monthly credits) $\frac{106}{6}$. You can check your usage with the /key endpoint or on the dashboard.

Most GET endpoints do not enforce pagination via tokens but rather via page and per_page parameters. For example, to get all coins on /coins/markets, loop page=1,2,3... until an empty array is returned. Some endpoints (like coins/list) return all data in one call (which can be large). The Pro API documentation notes that certain endpoints might have data or parameters exclusive to higher plans 107 (e.g., more granularity or extended history might be enterprise-only). In the docs, endpoints marked with a crown are for paid users 108, and those with diamond for enterprise.

Data Schema & Field Notes: CoinGecko's fields are generally self-explanatory: - Prices are usually in your requested vs_currency (e.g., usd). - Percent changes like price_change_percentage_24h are given in percent (%). For longer periods (7d, 30d, 1y) you must request them and they'll appear as e.g. price_change_percentage_7d_in_currency 109. - Timestamps are often in ISO8601 strings (e.g., "last_updated": "2025-07-18T09:30:45.123Z"). Chart data uses Unix timestamps (ms since epoch). - If a field is not applicable, it might be null. E.g., total_supply might be null for coins with uncapped supply. - On-chain DEX endpoints often return arrays of objects for lists of pools or tokens, including fields like tvl_usd, volume_24h, apy (if relevant), etc., similar to DefiLlama's data.

For visualization, common patterns include: - Use /coins/markets for a quick list of top coins and their daily percent changes, - Use /coins/{id}/market_chart for plotting price over time, - Use /global for a high-level market cap/volume chart, - Use /onchain/.../pools and /onchain/.../tokens to analyze DeFi liquidity.

Example – Multi-Coin Price Data: To get historical prices for multiple tokens to plot on a multi-line chart, you could call CoinGecko's /market_chart for each token. For instance:

```
# Pseudo-code for Python
coins = ["bitcoin", "ethereum", "solana"]
for coin in coins:
    url = f"https://pro-api.coingecko.com/api/v3/coins/{coin}/market_chart"
    params = {"vs_currency":"usd", "days": 30}
    headers = {"x-cg-pro-api-key": API_KEY}
    data = requests.get(url, headers=headers, params=params).json()
    prices = data["prices"] # list of [timestamp, price]
    # Process or normalize prices for chart...
```

This gives you daily (default) prices for 30 days for each coin. You could also use market_chart/range for exact alignment by timestamps. (If you have many coins, beware of rate limits; you might need to space out or parallelize with caution.)

CoinGecko's **Pro API** is reliable for market data and is likely where you get **price feeds, market caps, volumes, and percent changes** for your dashboard.

DefiLlama Pro API (DeFi Metrics & Aggregated Data)

DefiLlama is known for aggregating DeFi data – TVL (Total Value Locked), yields, revenue, etc. The **Pro API** (paid ~\$300/mo ¹¹⁰) offers **all the data categories** that DefiLlama tracks, with higher rate limits (up to 1000 req/min, 1M calls/month) ¹¹¹. This API is ideal for deep DeFi analytics and on-chain metrics. Major endpoint categories:

TVL & Protocols:

- GET /api/protocols List all protocols with their current TVL and basic info 112 113. Each protocol entry includes fields like name, slug (id), tvl, and possibly breakdowns or tags.
- GET /api/tvl/{protocol} **Simplified TVL**: returns the latest total value locked for a given protocol as a single number 114 115. Useful for quick checks or sparkline charts.
- GET /api/protocol/{protocol} Detailed protocol data 116 117. This typically returns historical TVL time series for the protocol, broken down by chain and/or by asset. For example, you might get a structure with tvl over time, and maybe nested data for each chain (if multi-chain). Also includes other metadata (like the protocol's category, logo URL, etc).
- GET /api/categories List of all protocol categories (e.g., Lending, DEXes, Yield Aggregators) with aggregate TVL 118.
- GET /api/forks List of protocol "forks" (e.g., showing relationships like Sushi is a fork of Uniswap) 119.
- GET /api/oracles List of oracles used by protocols 120.

· Chains & Global DeFi:

- GET /api/v2/chains TVL of all chains (blockchains) currently tracked 121. This returns an array of chain objects with fields like name, tvl, etc., giving you the total DeFi TVL per chain.
- GET /api/v2/historicalChainTvl Overall historical DeFi TVL (across all chains) over time 122. This is essentially the growth of DeFi.
- GET /api/v2/historicalChainTvl/{chain} Historical TVL for a specific chain 123.
- GET /api/chainAssets Assets held on each chain 124. This might return data on how much of each major asset is on a chain (e.g., how much USDC on Ethereum vs Polygon, etc).
- GET /api/activeUsers Active user counts on DefiLlama's tracked protocols and chains 125 126. Likely returns a summary of user activity (possibly the number of distinct addresses interacting, etc).
- GET /api/userData/{type}/{protocolId} Specific user stats for a protocol 127. For example, type=activeUsers might give daily active users for that protocol, if available.
- Stablecoins: (DefiLlama has an extensive stablecoin dashboard, and the API reflects that)
- GET /stablecoins/stablecoins List all stablecoins with current circulating amounts 128. Fields include each stablecoin's symbol, supply, perhaps peg info, etc. include_prices=true can add price info (to see slight depegs) 129.
- GET /stablecoins/stablecoindominance/{chain} Stablecoin dominance on a chain (130 returns what % of chain TVL is stablecoins, and which stablecoin is largest, etc.

- GET /stablecoins/stablecoinchains Current total stablecoin TVL per chain (how much value in stablecoins on each chain) 131.
- GET /stablecoins/stablecoincharts/all Historical market cap of all stablecoins over time (global chart) 132.
- GET /stablecoins/stablecoincharts/{chain} Historical stablecoin market cap on a specific chain 133.
- GET /stablecoins/stablecoin/{id} Historical data for a specific stablecoin (market cap over time, and its breakdown across chains) 134.

Yield Farming & Pools:

- GET /yields/pools Latest data for all yield farms/pools DefiLlama tracks (this is a large list)

 135 . Each pool entry has details like platform, chain, APY, TVL, etc. *Pro API might include additional fields like projected yields*.
- GET /yields/chart/{pool} Historical TVL and APY for a specific yield pool (identified by an ID from the pools list) 136.
- GET /yields/lsdRates Current rates for LSD (Liquid Staking Derivatives) across providers (useful for staking yield comparisons).
- GET /yields/perps Funding rates and open interest for perpetuals across exchanges (centralized and decentralized) 138.
- There are also specialized endpoints: .../poolsBorrow for lending borrow rates 139, .../ chartLendBorrow/{pool} for borrow APY history 140, etc., which cater to advanced yield analytics (lending/borrowing markets APY history).
- (For most use cases, the main /yields/pools and /yields/chart will be the primary ones for dashboard visualizations.)

• Revenue and Fees:

DefiLlama tracks protocol fees revenue and token incentives:

- GET /api/summary/fees/{protocol} Historical fees/revenue for a given protocol (141). This can be used to chart daily fees, etc.
- In the Pro API, fees data might also be integrated in the protocol details or separate endpoints for daily fee rankings. The fees category is a bit less documented, but the summary endpoint provides what is needed for one protocol.
- Additionally, there's GET /api/overview/fees or similar that might list multiple protocols (if provided, similar to DEX overview but for fees).

Token & Liquidity Analytics:

• GET /api/tokenProtocols/{symbol} – Given a token symbol (e.g. "usdt"), lists how much of that token is held across all protocols ¹⁴². This effectively shows where a token's liquidity is (the "Token Usage" page on DefiLlama). For example, USDT might be broken down: X in Uniswap, Y in Aave, Z in Curve, etc.

- GET /api/historicalLiquidity/{token} Historical available liquidity for swapping a given token on DEXes 143. This could show, for instance, how liquidity for USDT or a smaller token has grown or shrunk over time on DEXs.
- Prices: DefiLlama also has price endpoints (especially for tokens not listed on major CEXes):
 - GET /coins/prices/current/{coins} Current prices for tokens by their chain and address 144. You pass a comma-separated list like ethereum: 0xabc..., bsc:0xdef... and it returns current price (sourced from DEX data if needed).
 - GET /coins/prices/historical/{timestamp}/{coins} Price of given tokens at a specific timestamp 145.
 - o GET /coins/chart/{coins}?start=X&end=Y&span=N&period=... Multi-token price chart 146 . This returns price series for multiple tokens between given times, ideal for plotting relative performance. You can specify how many data points (span) and the interval (period, e.g. 1h or 1d). This is very useful: with one call you can get, for example, daily prices for 5 different tokens over the last year 147.
 - o GET /coins/percentage/{coins}?period=... Percentage change in price over a period 148. This directly gives the percent change (and possibly the base and final prices) for specified tokens over a given period (like 24h, 7d, etc). If you just need the % change number to display, this saves calculating it manually 149.
 - GET /coins/prices/first/{coins} The first price record DefiLlama has for each token (i.e., when it was first tracked) 150.

· Other Data:

- **Bridges:** Endpoints under /bridges e.g. GET /bridges (list all bridge protocols with recent volume) 151, GET /bridge/{id} (details of a specific bridge's volume, maybe liquidity) 152, GET /bridgevolume/{chain} (historical bridge volume overall or per chain) 153, GET / bridgedaystats/{timestamp}/{chain} (24h breakdown of bridge volume by token) 154, GET /transactions/{id} (transactions through a bridge within a time range) 155. If your dashboard covers cross-chain movement, these are relevant.
- **DEXes (Volumes):** Similar to Dune's DEX endpoints, DefiLlama has: GET /api/overview/dexs (all DEXes summary) 156, GET /api/overview/dexs/{chain} (DEX volume on one chain) 33, GET /api/summary/dexs/{protocol} (historical volume for one DEX) 157. For **derivatives**DEXes (perpetuals/options): GET /api/overview/derivatives 158 and GET /api/summary/derivatives/{protocol} 159 for perp exchanges.
- **Options:** GET /api/overview/options and /options/{chain} volume stats for options protocols 160 161, plus /summary/options/{protocol} for specific platform's option volume 162.
- NFTs/Hacks: GET /api/hacks List of all major hacks/exploits (with amounts, dates) 163 . GET /api/raises List of fundraising rounds (projects raising money, amounts) 164 . GET /api/treasuries Data on protocol treasuries (how much assets protocols hold) 165 . GET /api/entities List of entities (like venture funds or organizations) and their related protocols 166 .
- Emissions & Unlocks: GET /api/emissions List of tokens that have emissions/unlock schedules 167. GET /api/emission/{protocol} Unlock schedule for a specific token (e.g., when investor tokens unlock, how much) 168. This is great for charts of upcoming token unlocks.

As you can see, the DefiLlama Pro API essentially opens up **every dashboard** you see on defillama.com for API access. Pro access "unlocks" data categories like *unlocks, active users, token liquidity, raises* that were not available in the free API ¹⁶⁹.

Authentication: DefiLlama's Pro API uses a key that is included in the request URL. The base endpoint is https://pro-api.llama.fi and the **API key is included as part of the path**. According to the docs, the format is:

```
https://pro-api.llama.fi/<YOUR_API_KEY>/<endpoint_path>

For example, if your key is abc123..., a request would look like:

curl "https://pro-api.llama.fi/abc123/api/tvl/uniswap"
```

DefiLlama's web docs allow you to input your key which then automatically injects it into the interactive calls ¹⁷⁰. Alternatively, you might be able to use a header like Authorization: Bearer <key> (or a query param) but the official method given is the URL path injection. Keep your key secret – do not expose it on the frontend. In a Replit backend, you can store it and prepend it to all request URLs.

Rate Limiting: The Pro plan allows **1000 requests/minute** and up to **1,000,000 calls per month** ¹¹¹. This is quite generous. Still, for heavy data (like fetching all pools which could be thousands of entries), be mindful of rate limits if you refresh data often. The **Open (free) API** by contrast is 10-200/minute ¹⁷¹, so Pro is a big upgrade. If you approach the monthly cap, DefiLlama provides a usage page and you can even set up alerts for call consumption ¹⁷² ¹⁷³. Typically, each endpoint call counts as 1 credit regardless of payload size.

Response Format & Data Schema: All DefiLlama responses are JSON. Common patterns: - For list endpoints (e.g., /api/protocols, /stablecoins/stablecoins), you get an array of objects, each object with fields like id (slug), name, and relevant metrics (TVL, or supply, etc). - For historical data endpoints, you often get an object with a chart or timestamps and values array. E.g., a TVL history might look like: {"tvl": [[timestamp1, value1], [timestamp2, value2], ...] } or sometimes an object with date: value pairs. DefiLlama tends to use Unix timestamps (seconds) for time. - For detailed protocol or pool endpoints, you get structured JSON possibly with nested fields. E.g., protocol/{id} might have { "name":..., "tvl": {..., "chart": [...]}, "tokens": {...} } . - Field units: TVL, volume, etc. are usually in USD (as numbers). Percentages might be given as actual percentages (e.g., apy: 5.23 meaning 5.23%). Token amounts might appear in raw units or USD depending on context. - Nulls vs zeros: If a protocol doesn't have data for a category, you might see null. E.g., a protocol with no revenue data might have revenue: null].

DefiLlama's API returns a **lot** of data; it may need post-processing for visualization. For example, to recreate the "Top Protocols" table, you'd use <code>/api/protocols</code> and sort by <code>tvl</code>. To plot a chain's TVL over time, use <code>/api/v2/historicalChainTvl/{chain}</code> which returns a time series. For active users over time, you might combine <code>activeUsers</code> endpoints.

Example - Pulling TVL and Plotting: Suppose you want to plot the TVL of Uniswap on an area chart. You would: 1. Call GET https://pro-api.llama.fi/<KEY>/api/protocol/uniswap). The response will include Uniswap's TVL history by chain. For example:

```
{
  "name": "Uniswap",
  "slug": "uniswap",
  "tvl": {
    "total": 40000000,
    "chart": [
      [1698796800, 35000000],
      [1698883200, 36000000],
      . . .
    1
  },
  "chainTvls": {
    "Ethereum": { "tvl": 30000000, "chart": [ ... ] },
    "Polygon": { "tvl": 10000000, "chart": [ ... ] }
  },
  . . .
}
```

Here, chart is an array of [timestamp, tvl]. You can take the tvl.chart data to plot the total TVL over time. (Or stack by chain using chainTvls data). 2. If the API didn't provide a combined chart, an alternative is to use GET /api/tvl/uniswap for current value and GET /api/summary/fees/uniswap for daily fee chart, etc., depending on what you want to visualize.

Pagination: Most DefiLlama endpoints return all data in one go (no pagination needed). For instance, / yields/pools could return thousands of pools in one response. That might be heavy for the client, so consider filtering if possible (some endpoints allow query params to filter by chain or protocol). When dealing with large data sets (like all pools or all bridges transactions), you may need to handle large JSON in your Replit environment – possibly store and cache results to avoid repeatedly pulling huge lists.

Using DefiLlama Data in Dashboards: With Pro access, you can track metrics like: - **TVL charts** for each protocol or chain (growth over time). - **Comparison of protocols** by TVL or revenue (fetch multiple and compare fields). - **Token distribution** (e.g., use tokenProtocols to show where a particular stablecoin is allocated). - **Yield rankings** (sort /yields/pools by APY to list top yields). - **Upcoming unlocks** (from emission/{id} - you could create a timeline of token unlock events). - **DeFi vs CeFi** - e.g., use CoinGecko global data vs DefiLlama DeFi data to show DeFi share of total crypto market.

Building the Replit Dashboard (Multi-Line Chart Example)

Finally, to **fetch and visualize data** in a Replit dashboard, you will combine these APIs appropriately:

1. Choosing the Right API for the Job:

- 2. For **price time-series** (especially multiple tokens), you have a few options:
 - CoinGecko: Use /coins/{id}/market_chart or /market_chart/range for each token. This is straightforward and gives you price vs time for each coin in USD. You'll need to merge the data by timestamps for a multi-line chart. (Coins might have slightly different timestamp sets; align by day or hour as needed.)
 - DefiLlama: Use GET /coins/chart/{coins} to fetch multiple tokens in one call 146. This is very convenient you provide a list of token addresses (or use the special coingecko:bitcoin syntax for some) and a time range, and it returns synchronized price series for all. For example, you could get daily prices of BTC, ETH, and SOL for the last 90 days in one response. The result will likely have a structure like { "coins": { "<coin1>": [[t1, price1], ...], "<coin2>": [...], ... } }. You can then plot each coin's series. DefiLlama even has percentage endpoint to directly get percentage changes over a period 148, but for a chart over time, you want the actual series.
 - Velo: If you wanted exchange-specific pricing or more granular data (1-min resolution, etc.),
 Velo's /rows with type=spot can provide that. For example, you could pull minute-by-minute prices for BTC from Binance and ETH from Coinbase. However, combining multiple assets might require separate calls or careful parameter use (Velo's coins param allows multiple symbols, but it will return separate CSV lines per asset/exchange). This is more advanced if you need high-frequency data or cross-exchange comparisons.
- 3. For **percentage change lines** (like a normalized chart starting all lines at 0% at t0): fetch price series as above, then calculate percent change relative to the starting point for each series in your code. Many chart libraries can do this if you input the raw prices and set a baseline.

4. For **other metrics**:

- If you want a multi-line chart of, say, TVL of several protocols over time, use DefiLlama's / api/protocol/{id} for each (or find if there's a multi-protocol endpoint). You'll get each protocol's TVL chart, then you can overlay them.
- For **active users over time** for multiple projects, you might create a Dune query returning those metrics and use Dune's API to feed the chart.
- 5. **Visualization Libraries:** In a Replit dashboard (likely a web app or Jupyter notebook), you can use libraries like:
- 6. **Plotly** or **Matplotlib** (Python) if it's a backend script generating a graph.
- 7. **Chart.js**, **Recharts**, or **D3.js** if you're building a front-end web dashboard in Replit. These can consume JSON data via an API route.
- 8. **Mermaid or other simple charting** for quick line charts in certain environments. For a dark-themed multi-line chart (as in the screenshot), a popular choice is Chart.js with a dark theme or Plotly with template="plotly_dark".
- 9. **Data Refresh and Limits:** All these Pro APIs allow frequent updates. You can schedule your Replit (or use a loop with setInterval in JS or time.sleep in Python) to fetch new data periodically. Just respect rate limits:
- 10. If updating every minute, 60 calls/hour per endpoint is fine under Pro limits.

- 11. If pulling large histories, do it once and then incremental updates (e.g., get latest price or TVL point rather than full history each time).
- 12. Use caching where possible (Replit's filesystem or in-memory) to avoid redundant calls.
- 13. **Attribution:** All these services (especially CoinGecko and DefiLlama) request attribution if data is publicly displayed. Since this is an internal dashboard on Replit, you may not need to show logos, but if shared, note "Data from CoinGecko, DefiLlama" etc., as a courtesy.

Example Implementation Outline: Suppose we want to recreate a chart of price % change over time for Bitcoin, Ethereum, and Solana over the past 30 days: - **Data Fetching:** Use DefiLlama's multi-chart endpoint. For BTC and ETH which are base layer coins, DefiLlama might allow a special identifier (like coingecko:bitcoin or an internal id). For demonstration, let's assume we use contract addresses for wrapped versions (just as an example, WBTC, WETH, etc., or the coingecko: prefix):

```
import requests
API_KEY = "YOUR_LLAMA_KEY"
coins_param = "coingecko:bitcoin,coingecko:ethereum,coingecko:solana"
url = f"https://pro-api.llama.fi/{API_KEY}/coins/chart/{coins_param}?
start=1689638400&end=1692230400&period=1d"
data = requests.get(url).json()
```

This might return data like:

```
{
  "coins": {
    "bitcoin": [[1689638400, 30000], [1689724800, 31000], ...],
    "ethereum": [[1689638400, 2000], [1689724800, 2100], ...],
    "solana": [[1689638400, 50], [1689724800, 55], ...]
}
}
```

Then, in Python, calculate percentage changes relative to the first value of each series:

```
pct_data = {}
for coin, series in data["coins"].items():
    prices = [p for ts, p in series]
    start = prices[0]
    pct_change_series = [(p - start) / start * 100 for p in prices]
    pct_data[coin] = pct_change_series
```

Now pct_data holds arrays of percent changes for each coin corresponding to each date index. - **Plotting:** Using Plotly for example:

```
import plotly.graph_objs as go
import plotly.io as pio
pio.templates.default = "plotly_dark"
dates = [ts for ts, p in data["coins"]["bitcoin"]]
fig = go.Figure()
for coin, pct_series in pct_data.items():
    fig.add_trace(go.Scatter(x=dates, y=pct_series, mode='lines', name=coin))
fig.update_layout(title="30d Price Change (%)", yaxis_title="% Change",
    xaxis_title="Date")
fig.show()
```

This would render a dark-themed line chart with three lines for BTC, ETH, SOL showing their percentage change from Day 0.

- Alternative using CoinGecko: If not using DefiLlama, you'd call CoinGecko's /market_chart for each coin (with vs_currency=usd&days=30). Merge on dates (CoinGecko gives daily data by default if days> max timeframe). Calculate percent change similarly, then plot.
- Other Dashboard Elements: You can similarly use these APIs to populate tables (e.g., top 10 protocols by TVL using DefiLlama data), bar charts (e.g., revenue last week for various protocols), or text indicators (e.g., current price, 24h change from CoinGecko, updated every minute). The key is to identify which service has the *latest* or *historical* data you need:
- Latest prices/market caps: CoinGecko /coins/markets or DefiLlama /coins/prices/current.
- **Historical trends**: DefiLlama for TVL, CoinGecko for price, Dune for custom on-chain metrics, Velo for intraday price/funding.
- **Special metrics**: e.g., "active users" might require Dune (if you write a query for on-chain active addresses) or DefiLlama's activeUsers if provided.

In summary, by leveraging **Velo for granular market data**, **CoinGecko for broad market and price info**, **DefiLlama for DeFi-specific metrics**, and **Dune for custom analytics**, you can fetch a wealth of data and assemble a rich Replit dashboard. Use the authentication methods as described for each, adhere to rate limits (which are high on Pro plans), and parse the JSON/CSV responses to feed your visualizations. Always refer to official docs for field definitions and update your API calls if the providers make changes (since these platforms evolve quickly). With the above endpoints and examples, you should be able to recreate dynamic charts and dashboards similar to the example screenshot – for instance, a dark-themed multi-line chart showing multiple tokens' performance over time can be achieved by combining CoinGecko or DefiLlama price endpoints with a charting library ¹⁰³ ¹⁴⁸.

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