API Keys Reconciliation Document

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1. TwelveData API Key (Primary - $229/month Plan)

Property	Value
API Key	16ee060fd4d34a628a14bcb6f0167565
Plan	$229/month (Business Plan)
Rate Limit	600 API credits/minute (~55 requests/minute for time_series)

Files using this key:

File	Status
batch_weekly_data_fetcher.py	ACTIVE
weekly_batch_all_assets.py	ACTIVE
cloud_function_twelvedata/main.py	ACTIVE
cloud_function_twelvedata_stocks/main.py	ACTIVE
cloud_function_stocks_daily/main.py	ACTIVE
cloud_function_weekly_cryptos/main.py	ACTIVE
cloud_function_weekly_stocks/main.py	ACTIVE
local_twelvedata_fetcher.py	ACTIVE
fetch_sample_data.py	ACTIVE
fetch_all_stocks_basic.py	ACTIVE
fetch_all_historical_data.py	ACTIVE
fetch_additional_symbols.py	ACTIVE
fetch_fresh_twelvedata.py	ACTIVE
fetch_btc_nvda_ai_training_data.py	ACTIVE
fetch_historical_enhanced.py	ACTIVE
fetch_historical_extended.py	ACTIVE
fetch_today_data.py	ACTIVE
fetch_test_data.py	ACTIVE
backfill_historical_data.py	ACTIVE

explore_twelve_data_complete.py	ACTIVE
explore_twelve_data_news_sentiment.py	ACTIVE
test_twelve_data_api.py	ACTIVE
initialize_stocks_master_list.py	ACTIVE

2. Finnhub API Key

Property	Value
API Key	d4dg7t9r01qovljpm3g0d4dg7t9r01qovljpm3gg
Plan	Unknown (likely free tier)
File	explore_finnhub_api.py

3. Anthropic API Key (Claude)

Status: Not set (placeholder only - requires environment variable)

Files referencing: AI_FEATURES_DEPLOYMENT_GUIDE.md, cloud_function_ai/README.md

4. Google Cloud Service Account

File: aialgotradehits-8863a22a9958.json

Project: aialgotradehits

5. Incorrect/Old API Keys Found

Old Key	Status
848dc760a3154cb0bf34f85b64845a57	INVALID - replaced

Recommendations

1. Rate Limit Update for $229/month Plan

Your TwelveData $229/month plan includes 600 API credits/minute. The current scripts use REQUESTS_PER_MINUTE = 8 (free tier limit). This should be updated to REQUESTS_PER_MINUTE = 55 for paid tier.

2. Time Savings with Paid Plan

Scenario	Free Tier (8/min)	Paid Tier (55/min)	Improvement
20,000 stocks	~42 hours	~6 hours	7x faster
All assets (1 week)	~50 hours	~7 hours	7x faster

3. Action Items

1. Confirm TwelveData API key is correct: 16ee060fd4d34a628a14bcb6f0167565

2. Update rate limits in weekly_batch_all_assets.py from 8 to 55

3. Restart batch fetcher with faster rate limits