AIAlgoTradeHits.com

Complete Deployment Summary

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Component	Status	URL/Location
Trading App	DEPLOYED	https://trading-app-1075463475276.us-central1.run.app
Trading API	DEPLOYED	https://trading-api-1075463475276.us-central1.run.app
Opportunity Report	DEPLOYED	https://us-central1-aialgotradehits.cloudfunctions.net/opportunity-report-generator
Daily Scheduler	ENABLED	4:30 PM ET Mon-Fri
BigQuery Data	ACTIVE	406M+ records

1. Executive Summary

The AIAlgoTradeHits.com trading platform has been successfully deployed with the following key features:

* Multi-Timeframe Trading Analysis (Daily, Hourly, 5-Minute)

* Daily Opportunity Report with ML-based scoring (68.5% UP accuracy)

* Real-time data from TwelveData ($229/month, 2M records/day)

* 24 technical indicators with Growth Score and Sentiment analysis

* EMA 12/26 Rise Cycle detection for entry timing

* Pivot Low/High signals (100% feature importance in ML model)

* Cloud Scheduler for automated daily analysis at market close

2. Deployed Components

2.1 Trading App (Cloud Run)

The main React-based trading dashboard providing interactive charts, multi-timeframe analysis, and the Daily Opportunity Report interface.

Property	Value
Service Name	trading-app
URL	https://trading-app-1075463475276.us-central1.run.app
Region	us-central1
Container Image	gcr.io/aialgotradehits/trading-app:latest
Port	8080
Framework	React + Vite

2.2 Opportunity Report Generator (Cloud Functions)

Cloud Function that analyzes ALL asset types (stocks, crypto, ETFs, forex, indices, commodities) and generates ranked opportunity reports stored in BigQuery.

Property	Value
Function Name	opportunity-report-generator
URL	https://us-central1-aialgotradehits.cloudfunctions.net/opportunity-report-generator
Runtime	Python 3.12
Memory	4096 MB

Timeout	540 seconds
Entry Point	generate_opportunity_report

2.3 Cloud Scheduler

Automated scheduler that runs the opportunity report generator at market close (4:30 PM ET) on weekdays (Monday-Friday).

Property	Value
Job Name	opportunity-report-daily
Schedule	30 21 * * 1-5 (4:30 PM ET)
Time Zone	America/New_York
Target	opportunity-report-generator?asset_types=all&save=true

3. Opportunity Scoring System

The opportunity scoring system is based on the validated ML model with 68.5% UP accuracy. Scores range from 0-100 with the following components:

Component	Max Points	Criteria
Growth Score	40	Score >= 75: 40pts, >= 50: 25pts, >= 25: 10pts
EMA Cycle	20	EMA 12 > EMA 26 (Rise Cycle Active)
RSI Positioning	15	RSI 40-65: 15pts, <30 Oversold: 12pts
MACD Momentum	10	MACD Histogram > 0 (Bullish)
Pivot Signals	10	Pivot Low Flag = 1 (KEY FEATURE)
Trend Alignment	5	Above SMA 200: 3pts, Above SMA 50: 2pts

3.1 Recommendation Thresholds

Score Range	Recommendation	Action
80-100	STRONG_BUY	High confidence entry opportunity
60-79	BUY	Good entry with proper risk management
40-59	HOLD	Wait for better setup
20-39	SELL	Consider exit or avoid entry
0-19	STRONG_SELL	Strong exit signal

4. BigQuery Data Infrastructure

The system uses BigQuery for data storage with 406M+ total records across multiple asset types.

Table Name	Asset Type	Description
stocks_daily_clean	Stocks	200+ US stocks with 24 indicators
stocks_hourly_clean	Stocks	Hourly data for timing
crypto_daily_clean	Crypto	50+ cryptocurrencies
crypto_hourly_clean	Crypto	Hourly crypto data
etfs_daily_clean	ETFs	40+ ETFs
forex_daily_clean	Forex	20+ currency pairs
v2_indices_daily	Indices	Major market indices
v2_commodities_daily	Commodities	Gold, Oil, etc.
daily_opportunity_report	Reports	Daily ranked opportunities

5. Multi-Timeframe Trading System

The trading system uses a cascade approach from daily to 5-minute timeframes:

Timeframe	Weight	Purpose	Key Indicators
Daily	50%	Identify trending assets	Growth Score, EMA Cycle, Pivot Flags
Hourly	30%	Time entry/exit	EMA 12/26 crosses, RSI divergence
5-Minute	20%	Execute trades	Micro EMA, VWAP, Volume spikes

6. API Endpoints

Endpoint	Method	Description
/api/ai/trading-signals	GET	Generate buy/sell signals
/api/ai/rise-cycle-candidates	GET	EMA crossover detection
/api/ai/ml-predictions	GET	Growth score predictions
/api/ai/growth-screener	GET	High growth scanner
/api/ai/text-to-sql	POST	Natural language queries
/api/opportunity-report	GET	Daily opportunity report

7. New Features in This Deployment

* Multi-Timeframe Trader: 3-panel view (Daily, Hourly, 5-Min) with hot stocks selector

* Opportunity Report: Daily ranked opportunities for ALL asset types (stocks, crypto, ETFs, forex, indices, commodities)

* Automated Scheduler: Daily opportunity analysis at 4:30 PM ET market close

* ML-Based Scoring: 68.5% UP accuracy with pivot flags as key features

* Rise Cycle Detection: EMA 12/26 crossover signals for entry timing

* Growth Score: 0-100 composite score based on RSI, MACD, ADX, and trend alignment

* Export to CSV: Download opportunity reports for external analysis

8. Quick Start Guide

8.1 Access the Trading App

```
URL: https://trading-app-1075463475276.us-central1.run.app
```

Login with your credentials to access the dashboard.

8.2 View Opportunity Report

1. Navigate to 'Opportunity Report' in the left menu 2. View today's ranked opportunities by score 3. Filter by asset type (Stocks, Crypto, ETFs, etc.) 4. Click 'Export CSV' to download the report

8.3 Multi-Timeframe Analysis

1. Navigate to 'Trade Analysis' in the left menu 2. Select a hot stock from the dropdown or enter a symbol 3. View Daily, Hourly, and 5-Minute charts side by side 4. Look for alignment across all three timeframes

8.4 Manual Opportunity Report Generation

```
curl 'https://us-central1-aialgotradehits.cloudfunctions.net/opportunity-report-generator?
asset_types=all&save;=true'
```

9. Monthly Cost Estimate

Service	Monthly Cost
TwelveData API ($229 plan)	$229.00
Cloud Functions	$15-20
BigQuery Storage & Queries	$10-15
Cloud Run	$5-10
Cloud Scheduler	$0.30
TOTAL ESTIMATE	**$260-275**

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