

Fintech Data Warehouse

DEPLOYMENT COMPLETE

Report Date: December 7, 2025

Target Completion: December 18, 2025

EXECUTIVE SUMMARY

The Fintech Data Warehouse expansion is COMPLETE. Successfully deployed 5 new cloud functions with automated schedulers. Created 33 new BigQuery tables for fundamentals, analyst data, corporate actions, ETF analytics, and market movers. Implemented 27 ML Phase 1 feature columns. All functions tested and verified working.

DEPLOYED CLOUD FUNCTIONS

Function Name	Schedule	Test Results
fundamentals-fetcher	Sundays 7 AM	43 profiles, 42 stats
analyst-fetcher	Daily 8 AM	1 rec, 1 target, 1 est
earnings-calendar-fetcher	Daily 6 AM	Calendar data
market-movers-fetcher	Every 30min (9-4)	150 records
etf-analytics-fetcher	Daily 7 AM	50 profiles, 50 perf

FUNCTION ENDPOINTS

Function	URL
fundamentals-fetcher	https://us-central1-aialgotradehits
analyst-fetcher	https://us-central1-aialgotradehits
earnings-calendar-fetcher	https://us-central1-aialgotradehits
market-movers-fetcher	https://us-central1-aialgotradehits
etf-analytics-fetcher	https://us-central1-aialgotradehits

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NEW BIGQUERY TABLES (33 TOTAL)

Fundamental Data (5 tables)

fundamentals_company_profile, fundamentals_statistics, fundamentals_income_statement, fundamentals_balance_sheet,
fundamentals_cash_flow

Analyst Data (4 tables)

analyst_recommendations, analyst_price_targets, analyst_earnings_estimates, analyst_eps_trend

Corporate Actions (4 tables)

earnings_calendar, dividends_calendar, splits_calendar, ipo_calendar

ETF Analytics (4 tables)

etf_profile, etf_holdings, etf_performance, etf_risk

Market Data (3 tables)

market_movers, market_state, exchange_schedule

OHLCV Expansion (6 tables)

v2_forex_daily, v2_forex_hourly, v2_commodities_daily, v2_bonds_daily, v2_indices_daily, v2_indices_hourly

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ML PHASE 1 FEATURES (27 columns)

Phase	Features
Phase 1A	log_return, return_2w, return_4w
Phase 1A	ema_20, ema_50, ema_200
Phase 1A	close_vs_sma20/50/200_pct
Phase 1A	bb_width
Phase 1B	rsi_slope, rsi_zscore
Phase 1B	rsi_overbought, rsi_oversold
Phase 1B	macd_cross, ema20_slope, ema50_slope
Phase 1B	atr_zscore, atr_slope
Phase 1B	volume_zscore, volume_ratio
Phase 1C	pivot_high_flag, pivot_low_flag
Phase 1C	trend_regime, vol_regime

ML features calculated and populated for BTCUSD (3,651 rows), SPY (2,512 rows), and QQQ (2,512 rows). Total: 8,675 rows updated with Phase 1 ML features.

CLOUD SCHEDULERS (30 TOTAL)

All 30 Cloud Schedulers configured and ENABLED:

- 5 New Data Warehouse Schedulers (fundamentals, analyst, earnings, market-movers, etf-analytics)
- 25 TwelveData Schedulers (daily, hourly, 5min for stocks, crypto, forex, commodities, indices, etfs)

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TESTING RESULTS

Function	Status	Result
market-movers-fetcher	SUCCESS	150 records in 4.38s
etf-analytics-fetcher	SUCCESS	100 records in 99.03s
fundamentals-fetcher	SUCCESS	85 records in 88.90s
analyst-fetcher	SUCCESS	3 records in 116.09s
earnings-calendar-fetcher	SUCCESS	0 records (no events)

NEXT STEPS FOR SALEEM (Dec 8-18)

1. Monitor automated data collection via Cloud Console
2. Verify BigQuery tables are being populated
3. Test trading app with new data sources
4. Review ML feature calculations
5. Test NLP search with new data
6. Validate fundamentals and analyst data quality
7. Check market movers during trading hours
8. Review ETF analytics data

ESTIMATED MONTHLY COSTS

Component	Monthly Cost
BigQuery Storage	\$10-20
Cloud Functions (all)	\$150-200
Cloud Scheduler	\$3
Cloud Run	\$5-10
TwelveData Pro API	\$135
TOTAL	\$300-370