

SYRUS Hackathon 2025

QuantaSync AI

Title: QuantaSync AI Trading

Category: Investment & Stock Market Insights

Problem Statement: Investors face the challenge of digesting enormous volumes of market data—including technical charts, news sentiment, and company fundamentals—to make timely and informed trading decisions. Our project aims to simplify this process by providing an AI-generated, data-driven trading strategy that consolidates insights from multiple sources into a single, actionable recommendation.

Abstract: Our platform is an AI-driven trading insights system designed to empower investors with clear, actionable trading strategies. Utilizing the UPTIQ Console as the development hub, our system builds a centralized architecture where a Primary AI Agent generates trading strategies by aggregating inputs from five specialized sub-agents. Each sub-agent is responsible for fetching and analyzing data from various APIs covering market trends, technical indicators, news sentiment, company fundamentals, and historical trends. The solution is paired with a Flutter-based mobile app for a smooth user experience, and Django is used for API development and backend processes. This integrated approach ensures that investors receive real-time, actionable insights to guide their trading decisions.

Features:

- **Multi-Agent Strategy Generation:**

The Primary AI Agent synthesizes information from five sub-agents to create detailed trading strategies with defined entry and exit points, stop-loss, and dynamic adjustments.

- **Real-Time Data Integration:**

The Market Data Agent fetches live candlestick data, trading volumes, and market trends from various financial APIs, ensuring that strategies reflect current market conditions.



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- **Technical Analysis:**

The Technical Analysis Agent computes key indicators such as RSI, MACD, Bollinger Bands, and other chart patterns to identify optimal trading signals.

- **News & Sentiment Analysis:**

The News & Sentiment Agent gathers data from news APIs and social media feeds, applying NLP to assess market sentiment and gauge the impact of current events on stock performance.

- **Fundamental Analysis:**

The Fundamental Analysis Agent evaluates company performance through financial metrics like earnings, P/E ratio, and debt levels to determine the stock's long-term viability.

- **Historical Trend Analysis:**

The Historical Trend Agent analyzes past market behavior and seasonal trends to enhance the accuracy of the trading strategy by comparing historical data with current market conditions.

- **Execution & Notification System:**

The platform sends real-time push notifications via integrated APIs, alerting users when stocks reach predefined target levels for potential trade actions.

Tech Stack:

- **Backend & APIs:** Django
- **Mobile App:** Flutter
- **AI & Data Processing:** UPTIQ Console agents
- **Data Sources:** Financial APIs (e.g., Alpha Vantage, Yahoo Finance, Finnhub) and news/sentiment APIs

How will we use the UPTIQ Console in our project?

The UPTIQ Console will serve as the central development and orchestration platform for our AI agents. All agents—including the Primary AI Agent and the five sub-agents—are developed and deployed on the UPTIQ Console. This centralized approach enables efficient data processing, seamless integration of API data feeds, and real-time strategy generation. The Primary AI Agent

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leverages the inputs from the Market Data, Technical Analysis, News & Sentiment, Fundamental Analysis, and Historical Trend agents to produce a cohesive and dynamic trading strategy that is then pushed to users through the mobile app.

