

FINTRASYNC

Take charge of your personal investments

Let's Start

Brahma P. Sen
Akhil Gogineni
Kaushik Sampath
Shams ul Hassan

July 2025

The PROBLEM

LACK OF PERSONALIZED FINANCIAL ADVICE

- Difficulty tracking Stock performance and relevant news
- Hidden risks (fraud/insider trading) go unnoticed
- Complete Portfolio and Scenario Analysis

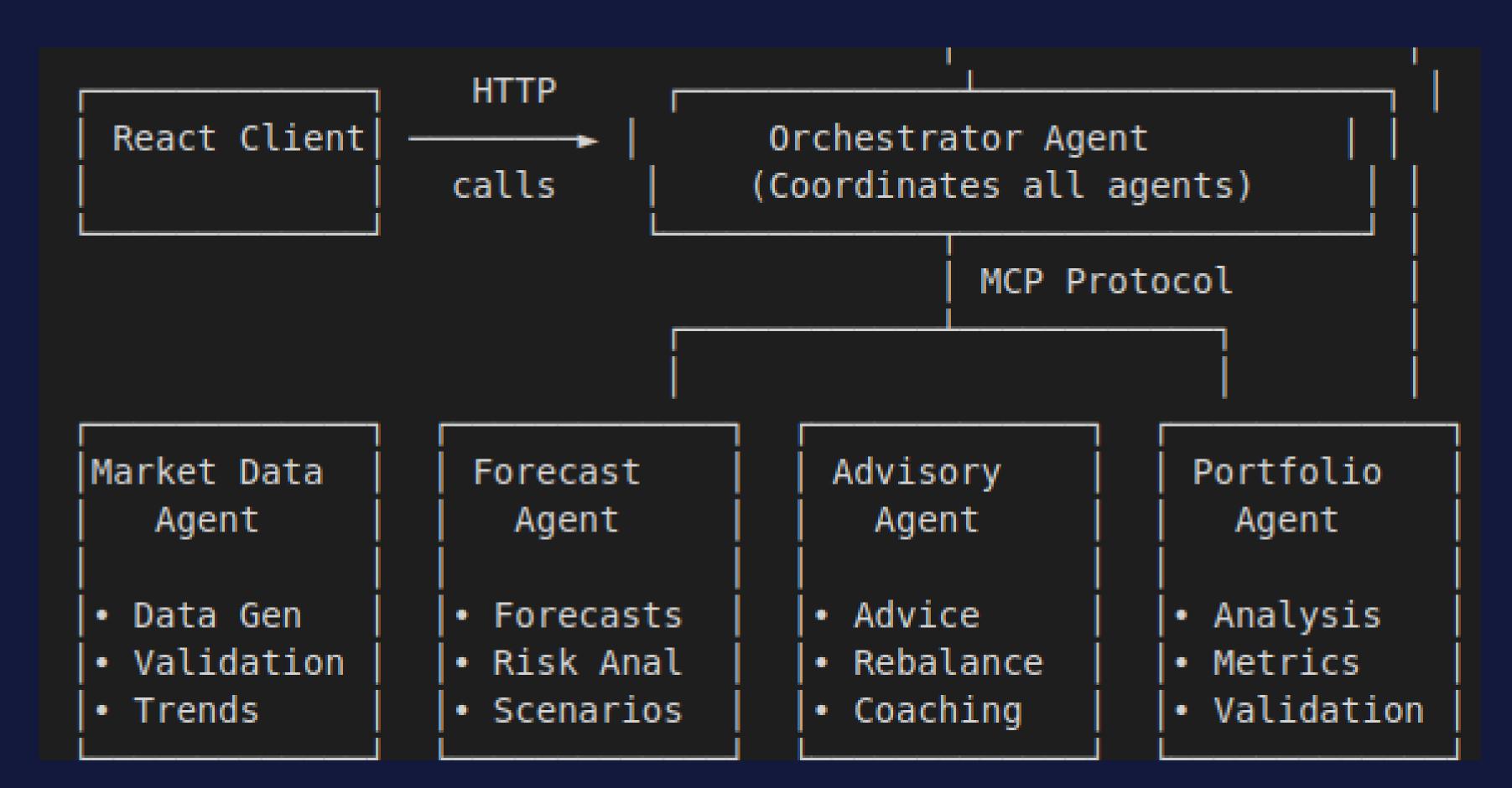
The SOLUTION

- A personalized, Agentic Al Finance companion
 - · A mobile interface for easy access

 Portfolio forcecast analysis, Investment advice based on risk profile

Complete Portfolio and Scenario Analysis

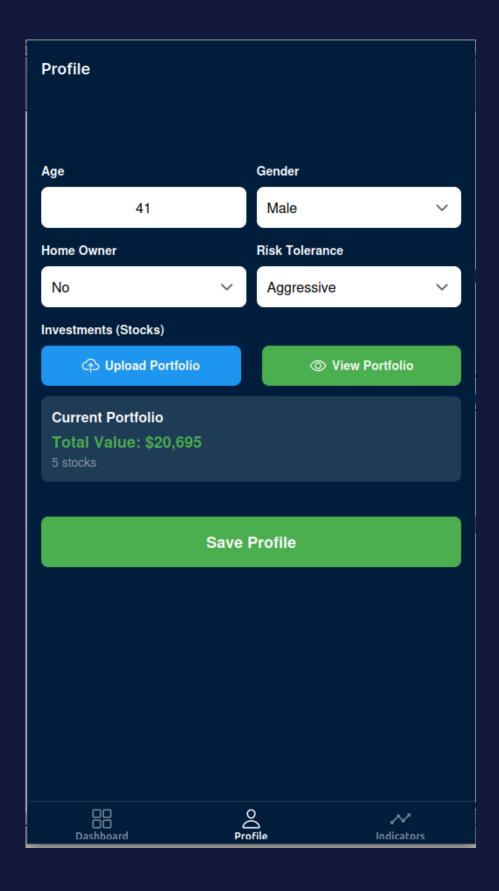
ARCHITECTURE

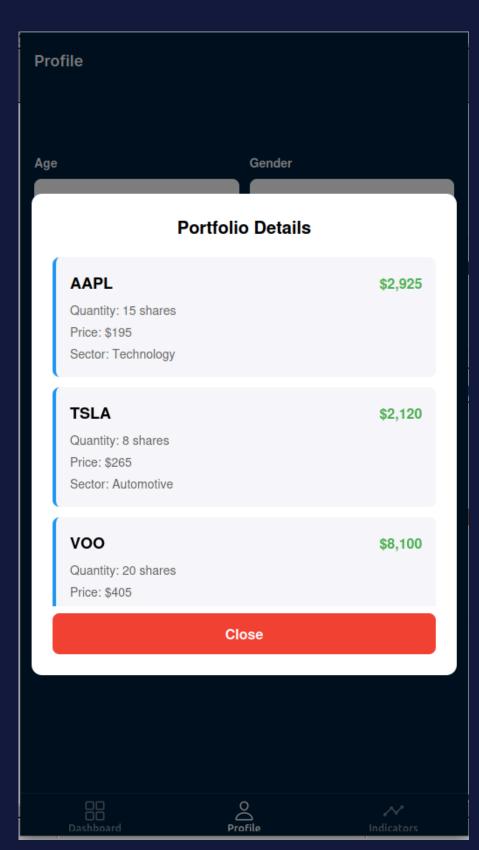


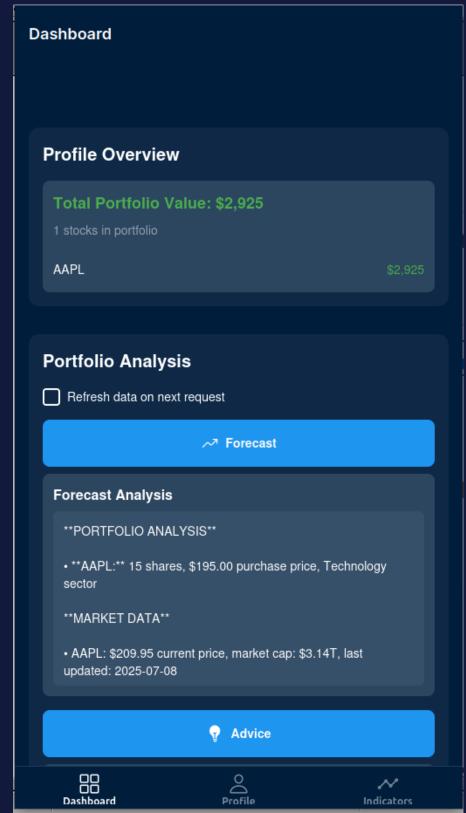
TECHNOLOGY STACK

- Fintra Mobile App: React Native developed using **Natively**Al co-pilot deployed to expo.app, expo GO
- FintraSync Analysis Engine: **Grok, Llama powered** multi-agent, MCP, python based analysis engine **deployed to Render**
 - Fraud Detection, Insider Trading: Attempted Agents using Coral Framework.
 - Voice integration: Attempted on the mobile app using Grok, Llama

MOBILE UI







Indicators

Economic and General Indicators

1. Modeling Human Behavior

Researchers have developed models to predict economic trends by analyzing patterns in human behavior, such as spending, saving, and investing. These models often use data from social media, transaction records, and surveys to understand and forecast market movements.

2. Sentiment Analysis

Sentiment analysis uses natural language processing to gauge public mood from news, social media, and financial reports. This helps investors and policymakers anticipate market shifts and economic changes.

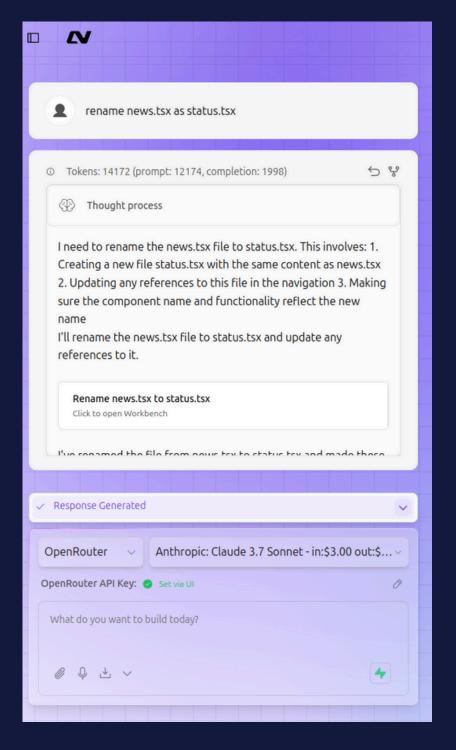
3. Current News

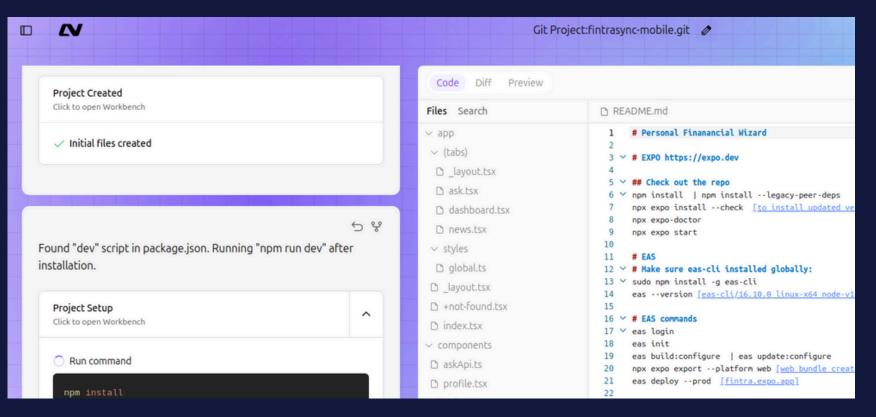
- The US economy added 147,000 jobs in June 2025, with unemployment falling to 4.1%, signaling a healthier labor market. (Source: MarketPulse)
- Despite high interest rates and inflation, the US economy grew by over 3% in late 2024, but many Americans remain concerned about the cost of living. (Source: NPR)

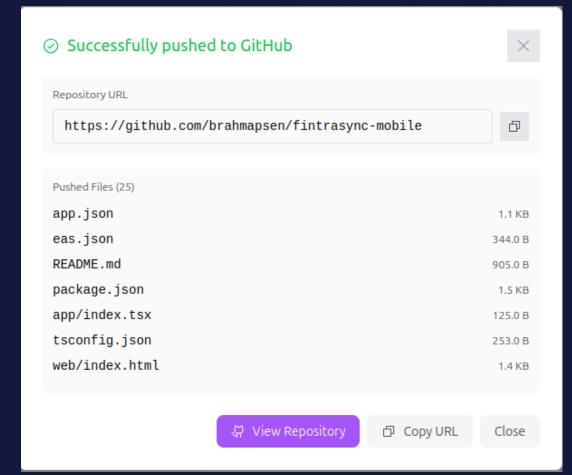
Groq/Llama in Action

```
🕏 llm.py 1 🗙
hack > fintra > 💠 llm.py > ...
  1 import os
     import requests
     from dotenv import load dotenv
  5 # Only load from .env if GROQ API KEY is not already set
     if not os.getenv("GROQ API KEY"):
          load dotenv()
  9 # Try to get API key from environment, then from file
 10 GROQ API KEY = os.getenv("GROQ API KEY")
 11   if not GROQ API KEY:
 12
         # Try to read from a shared file
 13
 14
              with open("/app/data/groq api key.txt", "r") as f:
 15
                  GROQ API KEY = f.read().strip()
          except FileNotFoundError:
 17
      def call groq llama(prompt: str, model="llama3-70b-8192", system message="You are a helpful financial advisor."):
          url = "https://api.groq.com/openai/v1/chat/completions"
 21
          headers = {
 22
              "Authorization": f"Bearer {GROQ API KEY}",
 23
              "Content-Type": "application/json"
 24
 25
          data = {
 27
              "model": model,
              "messages": [
 29
                  {"role": "system", "content": system_message},
                  {"role": "user", "content": prompt}
 31
 32
              "temperature": 0.7
 33
 34
          response = requests.post(url, headers=headers, json=data)
          response.raise for status()
          return response.json()["choices"][0]["message"]["content"]
```

Natively Al in Action







Communication with Coral Team



Features

A personalized, Agentic Al investment companion

- Use of Grok, Llama LLM and Agentic Framework for dynamic analysis
- Live market data from finnhub.io
- Use of Natively Al co-pilot for Ul mobile app development
- Attempted integration with Coral Agentic Framework
- Attempted Voice interface to UI

Future

A ROBUST Investment Advisor with

- Dynamic Agentic Framework and Platform
- Validation framework for analysis results
- Include fraud detection, insider trading, human emotion, sentiment analysis and additional economic indicators for better accuracy

THANK YOU.

The End

