**REPORT WEEK 3 + 4**

Github: **github.com/trungnguyenuga/ChatbotCLI**

1. Summary

During Weeks 3 and 4, I focused on preparing the chatbot to support both static financial knowledge and future real-time data integration. Although the stock market API were not yet provided, I completed the foundational work needed for API integration and implemented a reliable static Q&A system to reduce dependency on external queries.

2. Week 3 Progress

Studied Yahoo Finance and Alpha Vantage API documentation to understand endpoints, rate limits, and data formats.

Implemented fallback logic: The chatbot will use static answers or GPT if API data is unavailable.

3. Week 4 Progress

Built a local Q&A system using a JSON file (data/faq.json) with answers to common investing questions like:

“What is a stock?”

“What is a dividend?”

“What is PE ratio?”

Integrated static lookup into CLI chatbot: The bot checks static answers first before calling GPT, reducing cost and improving speed.

Updated chatbot logic to:

Gracefully handle user input

Support both static responses and GPT fallback

Load Q&A pairs from file, allowing easy future updates