

Capstone Projects

Project 1 – Finnie AI

Business Problem

- Financial literacy is still a major barrier, with jargon, fear of mistakes, and overwhelming choices stopping many from investing.
- Most financial tools are generic and fail to adapt to users' goals, knowledge levels, and risk appetite.
- Beginners lack access to trustworthy, real-time insights that connect learning with live market data.
- Current systems can't scale personalized, high-quality financial education to meet growing demand.
- Let's build **Finnie** - an intelligent multi-agent assistant that offers accurate, compliant, and confidence-boosting guidance at scale.

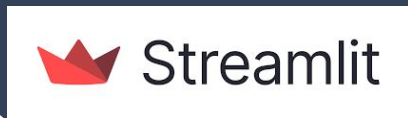
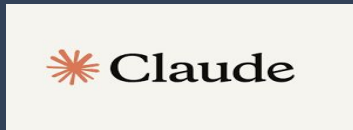
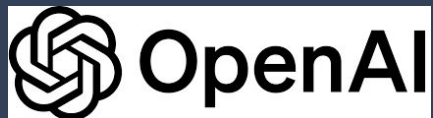


Project Deliverables

- Build a multi-agent AI Finance Assistant with at least four specialized agents, a context-aware conversational interface, and a multi-tab UI for chat, portfolio insights, and market trends.
- Integrate a retrieval-augmented knowledge base with categorized financial content, real-time market data, and portfolio analysis features.
- Ensure system reliability with error handling, fallback mechanisms, 80%+ test coverage, and well-documented setup and usage instructions. Any enhancements beyond this will be appreciated.
- You may choose from a range of available technologies for agent coordination, including GPT, Gemini, or Claude for LLMs; FAISS, ChromaDB, or Pinecone for vector databases; yFinance or Alpha Vantage for market data; and Streamlit, Gradio, or React for the user interface.



Tools Used



Grading Rubrics

- Your work will be evaluated on architectural depth, user experience, financial intelligence, and engineering excellence.
- Access the full evaluation rubric: [Grading Rubric Sheet](#)