



Personal Agentic AI Chatbot

GenAI Application

(Production Ready)

LangGraph | FastAPI | Streamlit | OpenAI

Groq | Meta Llama | Mistral

PROJECT LAYOUT



Phase1-Create AI Agent

1. Setup API Keys for Groq and Tavily
2. Setup LLM & Tools
3. Setup AI Agent with Search tool functionality

Phase2-Setup Backend (With FastAPI)

1. Setup Pydantic Model (Schema Validation)
2. Setup AI Agent from FrontEnd Request
3. Run app & Explore Swagger UI Docs

Phase3-Setup Frontend

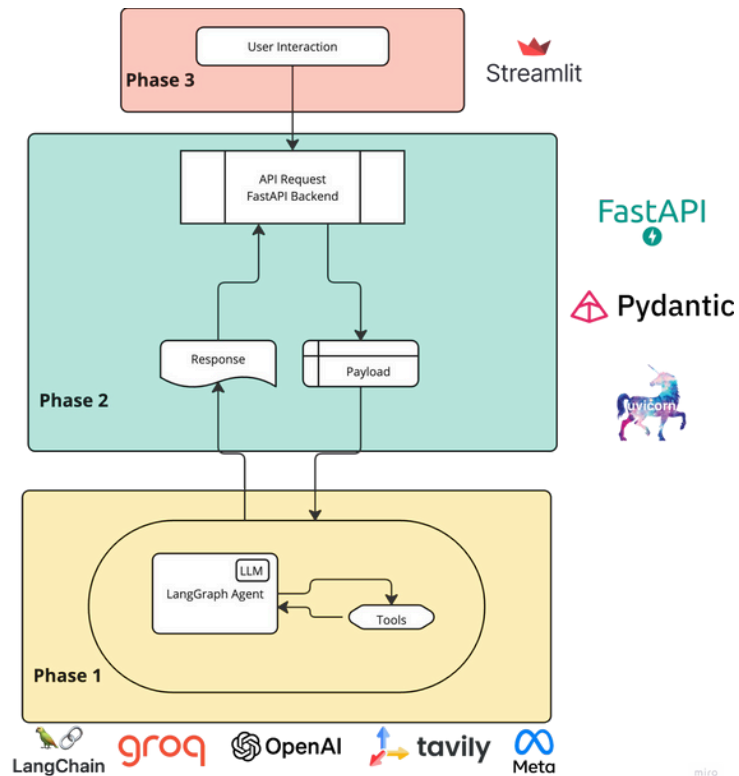
1. Setup UI with streamlit(model provider, model, system prompt, query)
2. Connect with backend via URL

TOOLS AND TECHNOLOGIES



- LangGraph ReAct Agents
- FastAPI for API calls
- Groq & OpenAI for LLM
- Streamlit for UI (Frontend)
- Langchain for tools
- Uvicorn for hosting the App
- Python
- VS Code

TECHNICAL ARCHITECTURE



AI Chatbot Agents

Create and Interact with the AI Agents!

Define your AI Agent:

you are an online trading agent

Select Provider:

☒ Groq

☐ OpenAI

Select Groq Model:

llama-3.3-70b-versatile

☒ Allow Web Search

Enter your query:

Please tell me about the current trending stocks

Ask Agent!

Agent Response

Final Response: The current trending stocks include ELALTA, DIS, SRPT, AMD, RXXR, HD, CELH, OKLO, F, ASML, TEVA, and SCHW. These stocks have shown significant changes in their prices and trading volumes, indicating a high level of interest among investors. However, it's important to note that the stock market can be volatile, and trends can change quickly. It's always a good idea to do your own research and consult with a financial advisor before making any investment decisions.