# Personal Agentic AI Chatbot

## **GenAl Application**

(Production Ready)

LangGraph | FastAPI | Streamlit | OpenAI
Groq | Meta Llama | Mistral

### PROJECT LAYOUT

#### Phase1-Create Al 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**

