Akashdeep Gupta

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TECHNICAL SKILLS

Programming Languages:	C++, Python, SQL
Frameworks:	LangChain, LangGraph, LangSmith, LlamaIndex, HuggingFace
Concepts:	LLMs, Agentic AI, Transformer, Prompt Engineering, RESTful APIs, Microservices, Model Context Protocol (MCP), Retrieval-Augmented Generation (RAG)
Libraries:	FastAPI, Flask, Pandas, NumPy, Scikit-learn, Streamlit, Copilot KIT
Databases:	MySQL, Azure CosmosDB, PostgreSQL
Tools & Technologies:	Azure Cloud, Azure OpenAI, Azure DevOps, GitHub Copilot, Redis, Postman, VS Code, Git/GitHub, Jupyter Notebook

EXPERIENCES

Specialist Programmer   October 2023 - Present
Infosys Limited | Gurugram

- Designed and implemented **multi-agent AI orchestration** using **LangGraph** and **LangChain**, enabling **40%** faster dynamic task routing and parallel tool execution, reducing overall audit processing cycles.
- Implemented hybrid agent memory with **Redis** (short-term) and **LangGraph Checkpointer** on **Azure Cosmos DB**, achieving **45%** higher state recovery reliability and improving long-term agent consistency.
- Built an **event-driven execution framework** using **Azure Service Bus**, enabling **30%** higher parallel task throughput while supporting dependency-based sequential workflows, improving long-running execution efficiency.
- Integrated **Azure OpenAI LLMs** (**GPT-5, GPT-4o, 4o-mini**) to deliver improvement in reasoning accuracy, document interpretation, and decision quality across agent workflows.
- Embedded **Human-in-the-Loop (HITL)** controls for ambiguous document scenarios, reducing misinterpretations by **20%** and cutting reprocessing effort.
- Optimized **observability and backend performance** using **LangSmith tracing**, **Redis session memory**, and **FastAPI**, achieving **25%** lower API latency and improving system scalability and responsiveness.

DevOps Intern   Nov 2022 - June 2023
EY (Ernst & Young) | Gurugram

- Improved CI/CD pipelines using **GitHub Actions**. This cut deployment time by **40%** and sped up release cycles for several client projects.
- Used **Docker** to containerize microservices and managed deployment with **Kubernetes**. This improved system reliability and reduced environment setup time by **30%**.
- Set up centralized **monitoring and logging** which led to a **35%** drop in production incidents and quicker root cause analysis.

PROJECTS

Smart Nutrition Assistant | Python, FastAPI, LangGraph, MCP, OpenAI, CopilotKit, React

- Developed an **LLM-driven multi-agent** system for meal parsing and nutrition recommendation, enabling intelligent understanding of user meal inputs.
- Built an **AI-powered calorie tracking app** with structured meal logging, nutrition breakdown, and progress tracking using agent-based workflows.

EDUCATION

Bachelor of Technology in Information Technology   2023
KIET Group Of Institutions, Ghaziabad   CGPA: 8.4/10

ACHIEVEMENTS & CERTIFICATIONS

- **Infosys Certified Python Programmer** validates strong Python programming expertise.
- **Infosys Certified AI Master (Advanced)** acknowledges advanced proficiency in Artificial Intelligence.
- **GitHub Actions** Certified acknowledges strong expertise in CI/CD automation workflows.
- Received **RISE Insta Award** at **Infosys** for exceptional performance and ownership in delivering critical initiatives.