

Akashdeep Gupta

+91-6392376517 | akashdeepg06@gmail.com | GitHub | LeetCode | LinkedIn | Portfolio

TECHNICAL SKILLS

Programming Languages:	C++, Python, SQL
Frameworks:	LangChain, LangGraph, LangSmith, LlamaIndex, HuggingFace
Concepts:	LLMs, Agentic AI, NLP, Prompt Engineering, Machine Learning, RESTful APIs, Microservices, Model Context Protocol (MCP)
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 Infosys Limited Gurugram	October 2023 - Present
<ul style="list-style-type: none">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 EY (Ernst & Young) Gurugram	Nov 2022 - June 2023
<ul style="list-style-type: none">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, LangChain, LangGraph, CopilotKit, React	
<ul style="list-style-type: none">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 KIET Group Of Institutions, Ghaziabad	2023 CGPA: 8.4/10
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ACHIEVEMENTS & CERTIFICATIONS

<ul style="list-style-type: none">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.
