

AKSHAY KUMAR

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SUMMARY

AI Engineer and Backend Developer with production internship experience at Virtusa and TATA Steel. Ranked 71st globally in TCS CodeVita Season 13 (top 0.05% worldwide). Experienced in building LLM applications, RAG pipelines, multi-agent AI systems, and FastAPI backends using LangChain, LangGraph, Python, Java and SQL. Delivered production-grade AI solutions and enterprise automation systems with measurable operational impact.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL
- **AI/ML:** LLMs, Generative AI, Agentic AI, Retrieval-Augmented Generation, Vector Embeddings, LangChain, LangGraph, Hugging Face, Prompt Engineering
- **Backend & APIs:** FastAPI, RESTful APIs
- **Databases:** PostgreSQL, SQLite, ChromaDB
- **Cloud & DevOps:** AWS (Cloud Fundamentals), Docker, CI/CD (GitHub Actions)
- **Tools:** Git, GitHub, Postman, Ollama
- **Concepts & Paradigms:** Data Structures & Algorithms, OOPs

WORK EXPERIENCE

Agentic AI Engineer Intern

Mar 2026 – May 2026

Virtusa | Hyderabad, Telangana

- Developed stateful multi-agent AI pipelines using LangGraph and LangChain to automate compliance monitoring and policy enforcement workflows, reducing manual review effort by 8+ hours per week.
- Architected the generative AI reasoning layer of an agentic backend system, processing 500+ unstructured policy documents and reducing policy breach response time by 35% through risk-classified remediation workflows.

Artificial Intelligence Intern

Jun 2025 – Jul 2025

TATA Steel UISL | Jamshedpur, Jharkhand

- Designed and deployed the Intelligent Vehicle Recognition System (IVRS) in production using YOLOv8 and PaddleOCR, achieving 90%+ accuracy in real-time license plate detection from live CCTV streams for gate security access control.
- Integrated the IVRS pipeline with PostgreSQL to automate Employee vs Visitor classification, reducing manual gate verification time by 40% and eliminating the need for manual log entries across daily operations.

PROJECTS

SARTHI.AI - Autonomous Agentic Travel Orchestration Intelligence [Github](#)

Tech Stack: Python, LangGraph, LangChain, FastAPI, Multi-LLM (OpenAI GPT-4, Gemini), SQLite, SSE

- Orchestrated a stateful multi-agent travel system in LangGraph with a 13-node StateGraph and conditional routing, integrating AsyncSqliteSaver for checkpointing that persists memory across server reboots.
- Engineered a real-time SSE streaming backend integrating Amadeus, Tavily, and Unsplash APIs with GPT-4o-mini and Gemini Flash multi-LLM routing, enforcing structured outputs via Pydantic schemas and delivering sub-700ms response latency for live travel recommendations.

ContextGPT – AI-Powered Meeting Intelligence [Github](#)

Tech Stack: Python, FastAPI, LangChain, ChromaDB, OpenAI GPT Models, Faster-Whisper, PostgreSQL

- Built a RAG-based meeting intelligence platform using Faster-Whisper for multi-modal transcription (audio, video, YouTube), reducing meeting note preparation time by 80% across 3 input modalities with a FastAPI pipeline.
- Implemented a semantic retrieval layer using BAAI/bge-small-en-v1.5 embeddings in ChromaDB with LangChain-powered query rewriting and answer generation, exposing JWT-secured REST APIs backed by PostgreSQL for session persistence.

ACHIEVEMENTS & CERTIFICATIONS

- **TCS CodeVita Season 13 - Global Rank 71 among 146,922 participants worldwide (Top 0.05%)** in the Guinness World Record-winning world's largest programming competition. | [Link](#)
- **Finalist - IBM Expert Labs National Hackathon, Bengaluru** | Shortlisted among the top teams from 200+ teams nationwide for developing an AI-powered cloud governance solution. | [Link](#)
- Building Generative AI Applications using Amazon Bedrock - AWS Training & Certifications | [Link](#)
- Introduction to Large Language Models - Google Cloud | [Link](#)

EDUCATION

B.Tech, Computer Science & Engineering

Aug 2022 – Jun 2026

Amity University, Ranchi, Jharkhand | CGPA: 8.89/10.00

Higher Secondary (Science Stream)

Jul 2020 – Jun 2022

St. John's Inter College, Ranchi, Jharkhand | 92.40%

Matriculation

Jul 2020

St. John's High School, Ranchi, Jharkhand | 91.00%