

Kumar Aditya

MLOps Engineer | AI Engineer | Full-Stack Developer
Chandigarh, India

+91-8210979447

- ✉ Email
- 🌐 LinkedIn
- 🐙 GitHub
- 🌐 Portfolio

SUMMARY

AI & Machine Learning student with hands-on experience building production-oriented AI systems, Generative AI applications, cloud-native deployments, and MLOps workflows. Skilled in Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), CI/CD automation, Azure cloud services, computer vision, and full-stack AI development. Interested in AI Engineering, MLOps, Applied AI, Intelligent Systems, and Cloud Infrastructure.

EDUCATION

- B.E. Computer Science Engineering (AI ML)**, Chandigarh University 2023 – 2027
CGPA: 7.77
- Class XII (CBSE)**, St. Karen's Secondary School 2023
- Class X (CBSE)**, St. Karen's Secondary School 2021

EXPERIENCE

- AI Engineer Intern**, Mendygo (Remote) Sep 2025 – May 2026
- Developed enterprise-grade Retrieval-Augmented Generation (RAG) systems for document intelligence and contextual knowledge retrieval.
 - Built ingestion, chunking, embedding, indexing, and retrieval pipelines using LangChain, FAISS, and Ollama.
 - Improved retrieval quality through semantic search optimization, prompt engineering, and retrieval-aware architectures.
 - Collaborated on cloud-native AI infrastructure involving containerized deployments, CI/CD workflows, and scalable inference services.

PROJECTS

- Adiptify – Adaptive GenAI Learning Platform** Oct 2025
- Built a adaptive learning platform using LangChain, LangGraph, FAISS, Azure, and LLM-based tutoring.
 - Developed curriculum-aware semantic retrieval and personalized learning workflows for intelligent content delivery.
 - Designed React-based frontend interfaces and API-driven backend services supporting scalable deployments.
 - Implemented Docker-based deployment pipelines and GitLab CI/CD workflows for continuous delivery.
 - Planned cloud-native infrastructure utilizing Azure services, Kubernetes orchestration, and Infrastructure-as-Code principles using Terraform.
- SentinelNet – AI Cybersecurity Monitoring Platform** Ongoing
- Developed an AI-driven cybersecurity monitoring platform utilizing Canary Tokens, telemetry analysis, and anomaly detection.
 - Integrated LLM-powered threat analysis, attack summarization, and automated incident reporting workflows.
 - Built API-driven monitoring pipelines for log aggregation, threat intelligence, and network activity tracking.
 - Implemented GitLab CI/CD pipelines, Dockerized deployments, and cloud-based monitoring services.
 - Designed scalable deployment architecture leveraging Kubernetes orchestration and Terraform-managed infrastructure.
- SentinelVision – Intelligent Surveillance MLOps Platform** Ongoing
- Built a real-time surveillance platform using YOLO, OpenCV, automated retraining workflows, and model monitoring.
 - Implemented model versioning, experiment tracking, drift detection, and CI/CD-enabled deployment pipelines.
 - Designed scalable Azure-based infrastructure supporting intelligent multi-camera monitoring environments.
 - Leveraged Docker containers and Kubernetes deployment strategies for production-ready computer vision services.
 - Applied MLOps practices including monitoring, automated retraining, and lifecycle management of AI models.

TECHNICAL SKILLS

- Programming Languages:** Python, SQL, JavaScript
- AI / ML:** Machine Learning, Deep Learning, NLP, Computer Vision, Transformers, Large Language Models (LLMs)
- Generative AI:** Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Ollama, Prompt Engineering, Embeddings, FAISS, Semantic Search
- MLOps:** Model Deployment, Model Monitoring, Drift Detection, Experiment Tracking, ML Lifecycle Management, CI/CD Pipelines
- DevOps:** Git, GitLab CI/CD, Docker, Kubernetes, Linux, REST APIs
- Cloud:** Microsoft Azure, Azure AI Services, Azure Machine Learning, Azure Storage, Terraform
- Frontend:** React.js, Next.js, HTML, CSS, Tailwind CSS
- Databases:** PostgreSQL, MongoDB, SQLite

CERTIFICATIONS

- NVIDIA Certified Associate: Generative AI (NCA-GENAI)
- Microsoft Azure AI Fundamentals (AI-900)