

Ravinder Singh

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SUMMARY

AI Engineer with hands-on experience building LLM-based applications, RAG pipelines, and backend systems using Python and FastAPI. Worked on developing AI workflows, REST APIs, and deploying production-ready applications across cloud platforms including AWS and GCP. Strong foundation in machine learning, data processing, and scalable AI systems with experience collaborating on real-world projects and deployments.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech(AI)	Amity University, Uttar Pradesh	8.35/10	2022-2026
Senior Secondary	Central Board of Secondary Education	87%	2021
Secondary	Central Board of Secondary Education	88.2%	2019

EXPERIENCE

- Lucidus AI Eduventures** December 2025 – April 2026
AI Engineer Vishakhapatnam
 - Built AI applications and backend systems using Python and FastAPI.
 - Developed REST APIs, RAG pipelines, and multi-agent AI workflows for LLM-based applications.
 - Managed Docker deployments, cloud infrastructure, monitoring, and production workflows across AWS and GCP.
 - Handled optimization, debugging, version control, and maintenance for deployed AI systems.
- National Physical Laboratory, CSIR, Government of India** May 2025 – July 2025
Research and Development Intern New Delhi, India
 - Developed scalable data pipelines for IoT-based monitoring and analytics systems.
 - Performed anomaly detection and exploratory data analysis on large-scale sensor datasets.
 - Worked with cloud storage, distributed processing workflows, and real-time telemetry data.

PROJECTS

- GraphLens: AI-Powered Network Intelligence & Automation Platform**
 - Engineered a scalable network analytics platform using Python and FastAPI to process distributed telemetry and security alerts.
 - Designed a Neo4j knowledge graph for real-time network dependency mapping and anomaly analysis.
 - Built a hybrid RAG and multi-agent LLM workflow to automate root-cause analysis for network incidents.
 - Developed a real-time Next.js dashboard and containerized deployments using Docker.
- RAG-Federated Learning Privacy Framework**
 - Built a privacy-preserving AI framework integrating Retrieval-Augmented Generation (RAG) with federated learning.
 - Developed distributed ML workflows with secure aggregation and decentralized model training.
 - Implemented vector search and retrieval pipelines for contextual AI response generation.
- Trinetra Anveshaka: UAV Parameter Estimator**
 - Developed a deep learning model for UAV parameter estimation using attention-based architectures.
 - Applied signal processing and machine learning techniques for robust prediction across noisy datasets.
 - Optimized model inference for real-time analytics and monitoring applications.

SKILLS

- Artificial Intelligence:** Machine Learning, Transformers, Generative AI, LLMs, RAG, Prompt Engineering, Agentic AI Systems, LangChain
- Backend & APIs:** Python, FastAPI, REST APIs, SQL, OOP, Asynchronous Programming
- Cloud & Deployment:** AWS, GCP, Azure, Docker, Google Cloud Run
- Data & Analytics:** Pandas, Matplotlib, SciPy, FAISS, Qdrant, NumPy
- Tools:** Git, Linux, Docker, Overleaf

CERTIFICATIONS

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| • Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle | 2025 |
| • Oracle Cloud Infrastructure 2025 Certified Data Science Professional, Oracle | 2025 |
| • CCNA: Introduction to Networks, Cisco Networking Academy | 2025 |
| • ChatGPT Prompt Engineering for Developers,, Deep Learning AI | 2024 |

ACHIEVEMENTS

- Published a research paper at IEEE ICCSAI 2025 on AI-driven analytics.
- Filed a provisional patent: Smart IoT-AI Fluid Leakage Detection System.
- Published research on privacy-preserving AI using federated learning
- Chairperson, IEEE Student Branch, leading technical initiatives, research culture and community engagement.
- President, Hardly Human AI Club, organizing AI-focused events and projects.