

SUMMARY

AI / GenAI Engineer with 3 years of experience building production-grade LLM systems for Fortune 500 clients, delivering 80% cost reduction and supporting 100K+ users. Specialized in **LLM fine-tuning, hybrid RAG, agentic workflows**, and secure full-stack delivery on Kubernetes/OpenShift, achieving up to 45% retrieval gains and strong improvements in model reliability.

EXPERIENCE

- IBM Watsonx

AI Engineer

Bangalore, India

Aug 2023 – Present

– **Platform Architecture:** Designed and deployed production-grade GenAI platforms across healthcare, telecom, and public sector, supporting 100K+ users and reducing operational costs by 80% through enterprise automation.

– **LLM Fine-Tuning & Optimization:** Enhanced LLM performance by fine-tuning IBM Granite 13B, improving NER gains by 35%, reduced GPU memory footprint by 25%, and packaged models for OpenShift deployments.

– **RAG & Agentic Pipelines:** Built hybrid RAG systems (BM25 + dense vectors + cross-encoder reranking) over Milvus and Elasticsearch with 1M+ embeddings, improving retrieval precision by 30–45% for complex queries.

– **Multimodal Automation:** Implemented Whisper STT + OCR + LLM pipelines processing 10K+ forms monthly for 100+ field officers, reducing manual operations by 70% and automating document + speech workflows across departments.

– **Enterprise Deployment & Reliability:** Orchestrated GPU-backed LLM microservices on Red Hat OpenShift with CI/CD, autoscaling, monitoring, and hardened security, sustaining 99.9% uptime in air-gapped environments.

– **Governance, Evaluation & Client Impact:** Established PDP guardrails and GDPR/SOC 2 compliance with 98% DLP precision; executed 5,000+ evaluation tests improving reliability by 20%; delivered \$2M+ ROI.
- IBM Expert Labs

Software Developer Intern

Bangalore, India

Jan 2023 – Jul 2023

– Built an ML pipeline for fraud detection, enabling review of 700K+ insurance claims monthly with 99.99% availability.

– Pioneered the implementation of an OCR and fuzzy-matching workflow, boosting reconciliation accuracy by 40% and slashing manual intervention by 10+ weekly hours for the entire reconciliation team.

– Managed CI/CD, observability, and integrations for a semantic-similarity model, enabling 4x faster deployments.

TECHNICAL SKILLS

- **LLMs & GenAI:** GPT, Claude, Llama, Mistral, Granite; RAG, agentic systems, prompt engineering; LangChain, LangGraph, LlamaIndex, CrewAI; LoRA/QLoRA; Python, FastAPI, React, TypeScript, Node.js, async microservices.

• **AI/ML & Data:** ML, DL, NLP, CV; PyTorch, HuggingFace; Milvus, Elasticsearch, PostgreSQL, MongoDB, Redis; BM25, hybrid retrieval; Pandas, SQL.

• **MLOps & Cloud:** Docker, Kubernetes, OpenShift; CI/CD; MLflow; Prometheus, Grafana; AWS, GCP.

• **Security:** OAuth2, JWT, RBAC; PII masking, DLP; GDPR, SOC 2, PCI-DSS compliance.

EDUCATION

- **Indian Institute of Information Technology (IIIT) Ranchi**

B.Tech (Hons.) in Computer Science and Technology

Ranchi, India

Aug 2019 – Jun 2023

PROJECTS

- **CrewAI Resume Analyst | CrewAI, FastAPI, Gemini API:** Developed a GenAI agent that improved resume parsing accuracy from 70% to 90%, helping recruiters focus on candidate engagement instead of manual data entry.

• **AI Portfolio Advisor | FastAPI, Gemini API, Docling:** Extracts portfolio holdings from PDFs/screenshots, normalizes data, benchmarks returns, and generates insights via LLM APIs.

• **HackType | ReactJS, Node.js:** Gamified typing simulator with leaderboard and real-time feedback.

• **MovieFlix / TVFlix | ReactJS:** Movie discovery app using the TMDB API with caching and lazy loading for faster browsing.

ACHIEVEMENTS

- Star of the Month – IBM (Dec 2024): Recognized for leading ASEAN GenAI pilots.

• Excelled in Google Hash Code 2022, securing a position within the top 2% globally

• Qualified for Meta HackerCup 2021 Round 2 (Top 1,500 globally).

• Solved 800+ DSA problems on platforms like LeetCode and GFG,enhancing algorithm design skillset