

KAMISH UPADHYAY

Senior GenAI / AI Architect | LLMs | Agentic AI | RAG | MCP | AI Systems Architecture | Enterprise AI & Financial Services | Work Ex: 8+ years

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 Bengaluru, India

OBJECTIVE

Specializing in **generative AI** and **LLM's fine tuning**, **SFT**, **FFT**, **PEFT**, **LoRA/QLoRA**. Skilled in **prompt/context engineering**, **response optimization**, **multi-turn dialogue systems**, and **RAG-based QnA**. Experienced in designing **agentic workflows**, **reward models**, and **scalable AI** solutions by ensuring **responsible AI**, **model explainability**. Responsible for **end-to-end** system implementation from client requirement till AI product deployment, monitoring and enhancements.

EXPERIENCE

1. SBER Bank India (1.3 Years)

Bengaluru, IN

Gen AI Architect

Aug 2025 - Present

- Led team for **GigaOCR**, a robust multimodal data extraction system using hugging face **transformers**, **olmOCR**, **vLLM**, and **Qwen 3-VL**, enabling accurate reading of PDFs, scanned documents, images, and handwritten invoices. Contributed to development of **GigaChat** enterprise LLM solutions, including role-based intelligent chatbots for internal departments (HR, IT, Treasury, Methodology, Credit, Investment, Sales). Implemented **multi-turn dialogue context modeling**, **state tracking**, **Voice agent framework** design, and **speech-to-text** interaction with advanced **prompt engineering** for natural, human-like responses.

2. Ernst and Young LLP (1.4 Years)

Bengaluru, IN

Senior AI Engineer

Apr 2024 - Jul 2025

- Built a **multimodal** AI compliance platform for UPL to analyze chemical product regulations across 50+ countries, integrating **CLIP**, **FAISS**, **Neo4j** knowledge graphs, and **GPT-4** for regulatory interpretation and automated report generation from dynamic global sources. Conducted **supervised fine-tuning** and alignment of **domain-specific LLMs**, implemented **agentic workflows** with memory, **tool-calling**, human-feedback loops, validation and **recovery mechanisms**, and designed **RL based reward strategy optimization**. Achieved **~70x faster** compliance processing and significantly reduced manual regulatory effort drastically.

3. Societe Generale (2 Years)

Bengaluru, IN

Senior Data Scientist

May 2022 - March 2024

- Developed an AI-driven **onboarding and compliance verification system**, integrated Tesseract OCR for document parsing and LLMs for intelligent data validation, risk profiling, and KYC summarization. Leveraged **generative AI** with **responsible AI** guardrails and deployed the solution on **AWS** to enable scalable, secure, and automated customer onboarding.

- Developed a production-ready **predictive model for justifying NAV** (Net Asset Value) in investment management. Utilized **ML decision trees**, **rabbitMQ**, and a modern tech stack including python, **AWS S3**, **postgresql**, **airflow**, **docker**, and **kubernetes** to ensure scalability and operational efficiency.

4. TCS Research (3.2 Years)

Bengaluru, IN

Applied Machine Learning Engineer

Feb 2019 – Apr 2022

- **AI Chatbot:** Developed a query chatbot leveraged **NLP** for issue searching, utilized **django** framework. Handled large-scale training & prediction of ML models with **Hadoop/Spark** distributed computing systems. The next word prediction module developed using **keras** sequential model **LSTM**, **tensorFlow/PyTorch**. Utilized **A/B testing** and **MLOps** for managing the ML lifecycle.

5. GateOverflow (9 Months)

Trivandrum, IN

Applied Machine Learning Engineer

May 2018 – Jan 2019

- Performed semantic analysis on user comments using Python and **NLTK** to extract sentiment, intent, and key themes, enabling data-driven insights into customer behavior and feedback patterns.

EDUCATION

Kamla Nehru Institute of Technology | KNIT

Sultanpur, IN

Bachelor of Technology, Information Technology

Apr 2014 - Apr 2018

Relevant Courses: Applied Machine Learning, AI, OOP, Data Structures, Algorithms, Databases, Operating Systems.

SKILLS

AI/ML: CNN, RNN, LSTM, XGBoost, AutoML, Predictive Modeling, Time Series.

GenAI: Transformers, Prompt/Context Engineering, RAG, Agentic AI, SFT, FFT, PEFT, LoRA, QLoRA, RL Reward Optimization, MCP, LLM Response Optimization, OCR, vLLM.

Programming: Python, SQL, JavaScript.

Frameworks: TensorFlow, PyTorch, Flask, Django, Streamlit, FastAPI.

DevOps: Git, Docker, Kubernetes, Airflow, CI/CD, MLflow, DVC.

Cloud & Data: AWS, PostgreSQL, Spark, Hadoop, Azure Cloud, GCP.

CERTIFICATIONS & CONFERENCES

Certified **Machine Learning Expert**, AppliedAI, '18 | **GATE Qualified - 97.10 percentile** | Certified **Deep**

Reinforcement Learning Expert | Udemy, '20 | Speaker, Open Machine Learning Conference, Bengaluru, '24

HONOR & AWARD

Extraordinary Performance Award, '25 | **Best Employee Award**, '25 | **CTO Appreciation Award**, '24