# Kamish Upadhyay

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## SUMMARY

GenAI and Data Science professional with **9 years** of experience building **machine learning** and **AI systems**, from **predictive models** to enterprise-scale agentic applications from scratch. Expertise in Machine learning, **Deep learning**, **NLP**, **LLM** fine tuning, **Agentic AI**, prompt & context engineering, response & inference optimization, RAG-based applications and designing agentic AI workflows, scalable AI solutions by ensuring responsible AI, model explainability.

## SKILLS

**Programming & Querying:** Python, SQL, Pandas, NumPy, Java.
**Frameworks:** TensorFlow, PyTorch, Keras, FastAPI, LangChain, LangGraph, LlamaIndex, Huggingface.
**Cloud & Database:** AWS, PostgreSQL, Spark, Hadoop, GCP, MongoDB, Redis, Cassandra.
**NLP:** LLM, MCP, OCR, vLLM, Finetuning, Transformers, Optimization, Semantic Analysis.
**Data Science & Mathematics**: Probability, Statistics, Predictive Modelling, Data Analysis, Statistical Modelling.
**LLM & AI Applications:** RAG, Agentic AI, LLM Integration, AI-driven Feature Development, Evaluation and Observability.
**Production Environment Deployment:** Git, Docker, Airflow, CI/CD, Data & Model Version Control, LLMOps, Model Deployment.
**Other:** Cross-functional Collaboration, Stakeholder Communication, Business Problem-Solving, Data-Driven Decision Making.

## EXPERIENCE

**1. SBER Bank India** — **Bengaluru, IN**
*Gen AI Architect* — *Aug 2025 - Present*

**Fraud Detection**

- Led a team to architect a real-time fraud platform for money-mule detection, combining **XGBoost, graph analytics** and a GigaChat **SLM** investigation agent with SHAP explainability. It reached **93.5% PR-AUC** at **4.25 ms** latency and cut fraud losses by **76%** compared with the baseline.

**AI Chatbot (RAG Knowledge Platform)**

- Led a team to build a RAG-based AI assistant for **500+ employees** across HR, IT and operations. It handles about 65% of queries without a human, cut response time from hours to seconds and saved 3 FTE.

**Customer Support Voice Agent (Personal Assistant)**

- Led a team to build a production STT→LLM→TTS banking voice agent on SBER Platform V, with fine-tuned GigaChat lite, guardrails and a CI quality gate. It cut ASR WER from 46% to 22%, reached 92% intent accuracy and ran at 1.8 s p95 latency and ₹0.48 per turn.

**2. Ernst and Young LLP** — **Bengaluru, IN**
*Lead AI Engineer* — *Apr 2024 - Jul 2025*

- Built an agentic AI analytics personal assistant platform with LLM tool-calling, validated Text-to-SQL (about 88% execution accuracy) and auto-generated charts, so **300+ users** could analyze sales, inventory and logistics data in plain language. It cut ad-hoc report requests by about 50% and turnaround from days to minutes.

**3. Societe Generale** — **Bengaluru, IN**
*Senior Data Scientist* — *Apr 2022 - March 2024*

- Built an LLM-driven onboarding copilot platform that automates OCR document intelligent extraction and verification, KYC checks and credit-risk scoring (0.87 AUC), cutting turnaround from 3–5 days to under hours and manual review by about 60%, with PII masking and on-premise Jenkins CI/CD.
- Developed a production-ready decision-tree model for NAV justification in investment management, integrating Python, RabbitMQ, AWS S3, PostgreSQL, Airflow, Docker, and Kubernetes to build a scalable valuation analysis pipeline and improve operational efficiency.

**4. TCS Research** — **Bengaluru, IN**
*Applied Machine Learning Engineer* — *Feb 2019 – Mar 2022*

- **AI Chatbot:** Developed an NLP-powered query chatbot for efficient issue searching and an **LSTM**-based next-word prediction module using Django, **TensorFlow**, and **PyTorch**; leveraged **Hadoop/Spark** for distributed ML training and inference, with **A/B testing** and **MLOps** to streamline model evaluation and lifecycle management.

**5. GateOverflow** **Trivandrum, IN**

*Applied Machine Learning Engineer* *May 2018 – Jan 2019*

- Performed semantic analysis on user comments using NLTK to extract customer sentiment and intent.

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## EDUCATION

**Kamla Nehru Institute of Technology | KNIT** **Sultanpur, IN**

*Bachelor of Technology, Information Technology (Near Equivalent to Computer Science)* *Apr 2014 - Apr 2018*

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## 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