Subodh Tiwari
Linkdln
GitHub

+91-9873559651
kumarsubodh150403@gmail.com

Professional Summary

AI/ML Engineer specializing in Agentic AI systems, LLM training, and RAG pipelines. Proven track record at Innodata of reducing data retrieval time by 35% and improving compliance accuracy by 20%. Expert in orchestrating complex, multi-agent workflows using LangGraph and LangChain, while leveraging strong foundations in predictive modeling and statistical analysis. Proficient in Python, Docker, and AWS, delivering scalable automation that saves 1,000+ hours monthly.

Skills Summary

- LM & GenAI: HuggingFace, LangChain, LangGraph, Prompt Engineering, RAG Pipelines, Vector DBs, MCP, N8N
- ML & Deep Learning: Scikit-Learn, PyTorch, TensorFlow, XGBoost, NLP
- Languages: Python, Java, SQL
- MLOps & Data Engineering: AWS, MLflow, DVC, ETL, Docker, CI/CD
- Frameworks: FastAPI, Streamlit, Git/GitHub
- Visualization: Power BI, Tableau, Matplotlib, Seaborn
- Tools: MS Excel, PowerPoint
- Soft Skills: Data-Driven Decision Making, Stakeholder Communication, Cross-Functional Collaboration, Problem Solving

Work Experience

Senior Associate, AI LLM | Innodata (Oct 2024 – Present)

- Engineered and deployed LLM-powered RAG pipelines, successfully cutting enterprise data retrieval and insight generation time by 35%.
- Fine-tuned domain-specific Large Language Models (LLMs) to handle specialized tasks, boosting compliance accuracy by 20% and improving guideline adherence.
- Mitigated LLM hallucinations by implementing advanced prompt engineering and re-ranking algorithms, utilizing LangSmith for real-time observability to ensure high-fidelity model outputs.
- Architected an SOP knowledge retrieval system ingesting 1,000+ client documents; enabled 200+ employees to instantly query complex instructions, saving 5+ hours per employee monthly.
- Led the automation of critical data workflows to enhance model scalability and operational efficiency, acting as the primary technical liaison for cross-functional teams.

Process Associate | Han Digital Solutions (Jul 2024 – Oct 2024)

- Conducted predictive modelling and statistical analysis, improving client decision-making accuracy and report reliability.
- Collaborated with stakeholders to design data-driven business solutions, enhancing operational efficiency across functions.
- Analyzed complex datasets using MS Excel and Power BI, generating interactive dashboards that provided key insights into operational trends and improved reporting efficiency.

Projects

RAG Pipeline with Observability (HuggingFace & LangSmith)

- Architected a production-ready RAG backend using Docker, FastAPI, and HuggingFace, integrating ChromaDB for efficient vector retrieval.
- Integrated LangSmith for full-stack observability, enabling real-time tracing of chain latency and retrieval quality to optimize performance.

Multi-Model GenAI Chatbot

- Developed a versatile conversational interface using LangChain and Gemini Pro that allows dynamic switching between LLMs for comparative testing.
- Engineered a shared memory module to preserve dialogue context across model switches, facilitating seamless A/B testing of prompt strategies.

AutoML Pipeline (ML Workflow Automation)

- Designed an end-to-end AutoML framework that automates preprocessing, feature selection, and model tuning, reducing experimental iteration time by ~40%.
- Implemented Docker for environment consistency and MLflow for experiment tracking, wrapped in a CI/CD pipeline for automated testing.

Email Spam Classification

- Engineered a real-time spam detection engine (95%+ accuracy) using TF-IDF and Naive Bayes, utilizing optimized text preprocessing for low-latency inference.
- Deployed the solution via a user-friendly Streamlit UI, ensuring the model was accessible and ready for immediate production use.

EDUCATION

Amity University(Jan 2025 – Jan 2026)

- MCA in Artificial Intelligence & Machine Learning (Online)
- Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Big Data Analytics

University of Delhi(2021 – 2024)

- B.A. (Hons) English