

Abhishek Kumar

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Education

Indian Institute of Information Technology, Nagpur
Bachelor of Technology in Computer Science and Engineering

2021 – 2025
CGPA - 8.38

Relevant Coursework

- Machine Learning
- Deep Learning
- Statistics for AI & DS
- DBMS
- Artificial Intelligence
- Large Language Model
- NLP
- OOPS
- DSA
- Computer Networking
- OS
- Software Engineering

Work Experience

Mastersoft ERP Solutions Pvt.Ltd

Jun 2024 – July 2025

AI/ML Intern

- Analyzed a real-world student dataset to identify retention patterns and implemented machine learning and deep learning models (model analysis) to predict student drop-off, achieving a 15% improvement in predictive accuracy.
- Deployed 5+ AI-powered chatbots and autonomous agents, including a FAISS-backed RAG system that improved document-query match accuracy by 35%, enabling inline image parsing and precise extraction from user manuals.
- Engineered a real-time facial recognition attendance system using Flask APIs, deployed it across 8 Dockerized containers with Nginx reverse proxy, achieving 0.1 second response time and achieved 99.2% face match accuracy by using RF.
- Automated content generation using web scraping + Gemini LLMs on AWS, reducing manual workload by 80%, and built a scalable RAG system with caching and automated re-ingestion on AWS S3, cutting retrieval latency by 30%.

Projects

Stock Analysis and Prediction

March 2024 – April 2024

Python, Deep Learning, Statistics, LLM, Time Series Forecasting

- Built and deployed a hybrid LSTM and ARIMA forecasting model on a stock dataset, with achieving accuracy 70%.
- Engineered and analyzed 4 key indicators (EMA, SMA, RSI, CAMD) to detect momentum and mean-reversion signals, boosting tr forecast stability by 30% and enhancing adaptability to regime shifts and integrated LLM feedback.
- Integrated LLM-driven feedback loop to auto-tune indicator parameters, improving predictive accuracy by 25%.

Airlytics: Flight Data Analysis Agent

March 2024 – April 2024

LLM, NLP, Langchain, AI

- Developed an AI-powered app using dynamic LLM agents to automate end-to-end EDA on flight booking datasets.
- Enabled natural language querying on 100% of cleaned datasets using a Pandas agent, automated statistical analysis and Python code generation, improving data accessibility for non-technical users by 80% and reducing manual analysis.

Conversational IITN Chatbot

Oct 2024 – Nov 2024

AI, Fine Tuning-LLMs, RAG

- Developed a multilingual chatbot by fine-tuning LLMs and RAG for real-time assistance on the IITN website.
- Built a scalable, retrieval-based architecture that delivered relevant responses, improving answer precision by 40%.
- Led full cycle development including data scraping, preprocessing, LLM fine-tuning resulting in 60% faster response times and a 3x boost in automated query handling efficiency through detailed model evaluation and iteration.

License and Certifications

- 2023 Amazon ML Summer School — [Link](#)
- 2023 Data Analysis with Python(IBM) — [Link](#)
- 2023 Machine Learning with Python(IBM) — [Link](#)
- 2024 Fundamentals of Deep Learning(NVIDEA) — [Link](#)
- 2024 NLP Applications(NVIDEA) — [Link](#)

Technical Skills

Languages: Python, SQL, Java, C/C++, JavaScript, HTML/CSS.

Frameworks: Flask, Tensorflow, LangChain, LangGraph, CrewAI, Redis, Pytorch.

Tools: Git/GitHub, Postman, CI/CD (GitHub Actions), Google Colab, AWS (EC2 & Sagemaker), Docker.

Databases: MySQL, FAISS, Pinecone, SQLite.