

Rohit Maurya

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PROFESSIONAL SUMMARY

Data analyst with experience in analytics, machine learning, and pipeline development. Proficient in Python, SQL, and statistical modeling for ETL processes, data visualization, and predictive analytics. Skilled in NLP, supervised learning, and AWS to derive insights from complex datasets.

EDUCATION

Babu Banarasi Das Institute of Technology and Management

Bachelor of Technology in Information Technology, CGPA: 7.7/10

Lucknow, India

Aug 2021 – May 2025

- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Database Systems, Cloud Computing

PROJECTS

UrbanYield: AI Real Estate Pricing Engine | Python, XGBoost, LangChain, SQL | 🐾

Nov 2025

- Architected automated ETL pipeline ingesting **15,000+** listings into PostgreSQL, reducing data retrieval latency by **40%**
- Built XGBoost pricing model achieving **15%** projected revenue uplift through dynamic holiday/weekend demand forecasting
- Integrated Gemini-powered AI agent to automate listing copywriting, cutting manual content creation time by **90%**

Multi-Agent Financial Analyst | Python, LangChain, Gemini, Pinecone | 🐾

Nov 2025

- Engineered multi-agent system where specialized agents (Researcher, Analyst, Writer) autonomously generate financial reports
- Implemented LangChain orchestration framework and Pinecone vector database for context-aware analysis

MCP Persona Memory System | Python, MCP, JSON, LLMs | 🐾

Nov 2025

- Developed persistent memory system implementing Model Context Protocol to retain user context across sessions
- Integrated with local LLM runtimes demonstrating long-term memory and designed JSON-based storage architecture

Smart Spam Classifier | Python, Machine Learning, NLP, Streamlit | 🐾

Oct 2025

- Built an NLP-based spam detection model using TF-IDF and Linear SVM, achieving **98%** accuracy on
- Applied advanced text preprocessing (tokenization, stopword removal, lemmatization) to enhance classification
- Designed an interactive Streamlit UI with a clean glassmorphism interface for real-time spam prediction

Predictive Maintenance for Industrial Motors | ESP32, MERN, ML, C++, Python | 🐾

Jun 2025

- Led team of 3 to design real-time health monitoring system using ESP32 sensors and MERN stack dashboard
- Architected IoT pipeline and prototyped ML model to predict motor failures based on thermal anomalies
- Published research findings in IEEE conference proceedings demonstrating practical IoT applications

Deloitte Data Analytics Job Simulation | Forensic Tech, Data Analysis, Tableau | 🌐

Sep 2025

- Completed practical tasks in Data Analysis and Forensic Technology simulating real-world client investigations
- Analyzed datasets to identify anomalies and trends, ensuring data validity for decision-making processes

TECHNICAL SKILLS

Programming Languages: Python, C++(Basic), SQL

AI/ML Frameworks Libraries: LangChain, PyTorch, Scikit-learn, Pandas, NumPy

NLP Skills: Text Preprocessing, Tokenization, TF-IDF, Word Embeddings, Text Classification

Databases: ChromaDB, Pinecone, MongoDB, PostgreSQL

LLM and AI Services: ChatGPT, Gemini, Claude

Cloud & DevOps Tools: AWS (EC2, S3, IAM, VPC), Docker, Git/GitHub

IoT Hardware: ESP32, IoT Sensors

Backend APIs: REST APIs, Flask , Streamlit

Data Visualization: Power BI, Matplotlib, Seaborn

Soft Skills: Team Leadership, Problem-solving, Analytical Thinking, Communication

CERTIFICATIONS & PUBLICATIONS

5-Day Agentic AI Intensive Program | Google & Kaggle

Nov 2025

- Completed intensive curriculum covering agentic AI architectures, tool integration, and memory management

AWS Cloud Computing & Solution Architecture | BBDDITM

Jul 2024 – Aug 2024

- Completed training on AWS infrastructure (EC2, S3, IAM, VPC) and solved real-world architecture scenarios

IEEE Research Publication | Predictive Maintenance Using IoT

Sep 2025