RAMDHAN PRAJAPAT

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Summary

An aspiring data scientist with 6 months of hands-on project experience in data analyst, machine learning, deep learning, natural language processing, predictive modeling and Gen Ai. Skilled in transforming data into actionable insights.

Education

IIT ISM, Dhanbad | **M.Sc. in Mathematics and Computing** | **CGPA: 8.16** *July 2023 – May 2025*

- **Relevant Coursework:** DSA (C++), Probability & Statistics, DBMS, Machine Learning

Govt. Science College, Sikar | **B.Sc. in Mathematics** | **CGPA: 8.50** *May 2019 – May 2022*

Experience

KloudMate | **Associate Developer Intern** *April 2025 – Present*

- Currently working on enhancing anomaly detection in a multi-tenant observability system using ML models (ARIMA, LSTM) and online learning.
- Designing a ClickHouse-independent streaming pipeline using Kafka to enable real-time log analysis and scalable incident detection.

Feynn AI | **Data Science Intern** *March 2024 – May 2024*

- Developed a Diabetes Risk Prediction model using Logistic Regression, SVM, Random Forest, and XGBoost, achieving 95.23% accuracy, 92.83% F1-score, and 99.12% AUC score.
- Implemented outlier handling (capping), SMOTE for imbalanced data, and feature scaling; built a Streamlit app for real-time risk assessment and early diagnosis.

Projects

AI-Powered Medical Chatbot with RAG and LLMs GitHub Link

- Built an advanced medical chatbot using Flask, LangChain, and Pinecone with RAG-based architecture, integrating Hugging Face embeddings and Llama 3.3 70B hosted on Groq.
- Implemented a CI/CD pipeline with GitHub Actions and AWS, automating deployment, testing, updates, ensuring system reliability and scalability

Real-Time Facial Emotion Detection using CNN GitHub Link

- Developed a real-time facial emotion recognition system using CNN and OpenCV, incorporating data preprocessing, image augmentation, and functional APIs to deliver accurate emotion detection for virtual support, security, and healthcare applications.

Custom Logo Detection System using YOLOv10 GitHub Link

- Developed a real-time logo detection system using a pre-trained YOLOv10 model, optimized on a custom dataset for high-accuracy logo recognition.
- Achieved robust detection across diverse backgrounds through model fine-tuning, image augmentation as well as performance optimization.

Fake News Classification using ML Pipeline GitHub Link

- Developed a news authentication analysis model using RandomForestClassifier, achieving 99% accuracy through text preprocessing (stopword, punctuation removal, lowercase conversion, stemming) and TF-IDF vectorization.
- Implemented a machine learning pipeline integrating TF-IDF vectorization and RandomForestClassifier to automate the preprocessing and model building process for news authentication

Technical Skills

Languages : C++, Python, SQL (MySQL)

Gen AI & LLMs: LangChain, LlamaIndex, Langsmith, CrewAI, Groq LLM, Hugging Face Transformers, VectorDB, RAG (Retrieval-Augmented Generation), LLMs, LLMs Fine-Tuning (LoRA, QLoRA), AWS Bedrock

ML & DL : Regression, Classification, Clustering, XGBoost, Natural Language Processing, Computer Vision, ANN, CNN, RNN, LSTM, Transformer Architecture, Transfer Learning, Diffusion Models, CI/CD, AWS

Analytical Tools : MS Excel, MySQL, Power BI, Jupyter Notebook, Google Colab, Streamlit

Libraries : PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, FAISS, Pinecone