RAMDHAN PRAJAPAT

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Summary

An aspiring AI/ML enthusiast with 6 months of hands-on project experience in data analyst, ML, Deep Learning, natural language processing, predictive modeling,Gen AI, Agentic AI. Skilled in transforming data into actionable insights.

Education

IIT ISM, Dhanbad | **M.Sc. in Mathematics and Computing** | **CGPA: 8.30** *July 2023 – May 2025*

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

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

Experience

FloData Analytics | **Data Science Intern (Onsite)** *June 2025 – Present*

- Currently working on a **Construction Management System** project focusing on the integration of Generative AI and Agentic Layers to build an intelligent system, enabling workers to query construction data, track their tasks, and automating ticket generation and communication between contractors and managers.

KloudMate | **Associate Developer Intern (Remote)** *April 2025 – May 2025*

- Worked on enhancing anomaly detection in a multi-tenant observability system using ML models (Seasonal-Trend Decomposition with Residual Analysis, LSTM).
- Implemented LLM-assisted Root Cause Analysis using a RAG approach, combining incident retrieval from a Vector Database and dependency insights from a Knowledge Graph for faster, accurate anomaly resolution.

Feynn AI | **Data Science Intern (Remote)** *March 2024 – May 2024*

- Developed a Diabetes Risk Prediction model using Logistic Regression, 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

- Implemented an advanced medical chatbot using Streamlit, LangChain, and Pinecone with a RAG-based architecture, integrating Hugging Face embeddings and Llama 3.3 70B (hosted on Groq), and implemented a CI/CD pipeline with GitHub Actions and AWS for automated deployment, testing, and updates to ensure system reliability.

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.

AI Search Assistant using LLaMA3 & LangChain Agents GitHub Link

- Built an intelligent search assistant using LangChain Agents and Groq's LLaMA3 model, integrating arXiv, Wikipedia, and DuckDuckGo APIs in a Streamlit chat interface for real-time multi-source search, with a CI/CD pipeline via GitHub Actions for automated testing, deployment, and secure API handling on Hugging Face Spaces.

Fake News Classification using NLP and ML Pipeline GitHub Link

- Developed a news authentication model using a machine learning pipeline with TF-IDF vectorization and RandomForestClassifier, automating text preprocessing (stopword and punctuation removal, lowercase conversion, stemming) and achieving 99% accuracy.

Technical Skills

Languages :Python, SQL (MySQL)

Gen AI & LLMs: LangChain, LlamaIndex, Langsmith, CrewAI, AI Agents, Groq LLM, Hugging Face Transformers, VectorDB, RAG (Retrieval-Augmented Generation), LLMs, LLMs Fine-Tuning (LoRA, QLoRA), AWS Bedrock, Neo4j, Langgraph

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

Analytical Tools : N8N For workflow, MS Excel, MySQL, Power BI, Jupyter Notebook, Google Colab, Streamlit

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