Pritam Soni

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Summary

Aspiring Data Scientist having one year of experience with a strong foundation in mathematics, statistics, machine learning and NLP. Passionate about learning and gaining hands-on experience in data science roles including machine learning engineering and data analysis.

Education

Indian Institute of Technology (ISM), Dhanbad July 2023 -Present
Master of Science in Mathematics and Computing *CGPA: 7.6*

S.N.K.P Govt. College,Sikar May 2020 – May 2023
Bachelor of Science in Mathematics *CGPA: 7.8*

Experience

Afame Technologies May 2024 – June 2024
Machine Learning Intern

- Implemented a machine learning model to addressed the challenge of detecting Credit Card fraudulent transactions among a vast majority of legitimate.Employed undersampling and oversampling techniques(SMOTE) to address class imbalance and achieved 0.91 AUC score and 0.88 precision-recall score, improved fraud detection accuracy.

CellStrat Jan 2025 – Present
AI Developer

- AI Integration and API Development: Developing a FastAPI server integrating OpenSearch and LLMs to power an AI-driven healthcare chatbot for real-time medical insights.

Projects

Stock Market Forecasting *[**Code Snippet**]*

- Demonstrated a predictive model to forecast stock prices using Long Short-Term Memory (LSTM) networks.
- Leveraged advanced machine learning techniques to analyze trends and generate actionable insights for investment decisions.Achieved accuracy of approximately 85% on test data.

RAG Chatbot Development *[**Code Snippet**]*

- Designed a Retrieval-Augmented Generation (RAG) chatbot using LangChain framework and Groq API, enabling document-based conversational AI with advanced embedding and vector storage techniques.
- Implemented LangSmith to monitor and analyze the chatbot's performance, enabling efficient continuous improvement of LLM.

Bike Helmet Enforcement System *[**Code Snippet**]*

- Developed a real-time bike helmet detection system using YOLO models with custom-trained datasets, enabling accurate identification of helmet usage by riders.
- Integrated the solution with a live video feed using Computer-Vision for immediate safety monitoring.Reached a mean Average Precision (mAP) of 0.87 and detection accuracy of 90% for helmet usage.

Technical Skills

Languages: C++, Python, SQL
Machine Learning: Supervised and Unsupervised Algorithms,Neural Networks,NLP,Generative-AI,LLM,Open-CV
Analytics: Statistical Analysis,Data Visualization and Preprocessing,EDA,ETL Pipelines
Libraries: Matplotlib,Seaborn,Pandas,Numpy,Scikit-Learn,Tensorflow,Pytorch
Tools And Frameworks: Github,Git,API,Flask,Streamlit,Lang-Chain,MYSQL,Ms-Excel,Power-Bi,GCP
Soft Skills: Communication,Problem-Solving,Project Management,Analytical-Thinker

Achievements

- GATE (Data Science) 2024 Qualified.
- INSPIRE Scholar (2020-2025) for Academic excellence.