Praveen Vishwakarma

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Profile Summary Data Scientist with 1.5 years of industry and 3 years of academic experience specializing in healthcare analytics. Developed predictive models that reduced healthcare costs by 11% and improved patient outcomes, leveraging Python, SQL, and advanced ML techniques. Skilled in data visualization and storytelling, transforming complex analyses into actionable insights for clinical and business stakeholders. Education IIT Hyderabad Aug 2021 - Jun 2023 M.Tech., Computer Science and Engineering Government Engineering College, Jabalpur Aug 2016 - Jun 2020 B.E., Information Technology Work Experience Axtria Aug 2023 - Dec 2024 Data Scientist Bangalore • Leveraged LightGBM, SHAP, and prescription history to reduce patient churn by 18%, analyzing healthcare datasets to flag high-risk patients and communicate critical insights to clinical teams. • Automated data validation workflows, reducing manual effort by 8% with Python scripts integrated into CI/CD pipelines. • Reduced fraudulent transactions by 19% by deploying autoencoders and classification techniques such as XGBoost. • Boosted conversion rates by 20% by implementing K-means clustering with Azure for personalized marketing campaigns. • Reduced healthcare costs by 11% through a predictive model built with XGBoost and SQL on AWS to identify high-risk patients, optimize resource allocation, and present actionable insights to stakeholders. • Eliminated the manual complexity of writing queries by developing a plaintext-to-SQL converter using Streamlit, Llama, and LangChain. Projects Low light image enhancement • Crafted a 30 times faster model for developing poorly lit images using a novel technique called zeroDCE (zero reference Deep Curve Estimation). DeepFake Detection using GAN • Conceived a fake image detector by training two neural networks, one generated fake images and the other classifies it as fake or genuine. Dynamic Thermal Management • Introduced and implemented an algorithm to achieve 42% cool down in stacked chip processors. Cluster resource optimization tool • Designed a 25% more efficient AI-driven cluster optimization tool for distributed environments using K8s, tensorflow. Banking Document Analysis • Streamlined banking document analysis by 37% by fine-tuning LLMs for automatic summarization, clause extraction, and risk analysis of loan and policy documents. Tools used were spacy, langchain, hugging face. Text sentiment analyser • Improved customer feedback classification accuracy by 44% by analysing banking reviews. The tools used were BERT, tensorflow, NLTK. Skills • Programming Languages : C/C++, Java, Python, JavaScript, TypeScript, SQL, HTML/CSS • Frameworks & Libraries : Flask, FastAPI, tensorflow, pytorch, keras, snowflake, pyspark, sklearn, opencv, text-to-speech, GPT • Machine Learning & AI : Neural networks, Machine learning, LLM, LSTM, GAN, NLP, image, audio & text processing , encoder - decoder • Tools & Platforms: git, AWS, azure, Kubernetes, docker, openAI, Librosa, Kaldi, streamlit, spacy, transformers, hugging face Certifications • Neural Networks and Convolutional Neural Networks essential training • Prompt engineering for Generative AI