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Profile Summary A highly skilled Data scientist with 3 years of academic plus 1.5 years of professional experience in designing, developing, and deploying scalable software solutions. Proficient in ML, genAI, data visualization with expertise in data processing, API development, and automation. Known for optimizing workflows and reducing operational inefficiencies with robust Python scripts.

Skills Languages:

C/C++, Java, Python, JavaScript, TypeScript, SQL, HTML/CS S Frameworks: Flask, FastAPI, tensorflow, pytorch, keras, snowflake, pyspark, sklearn, opencv, text-to-speech, GPT ML/AI: Neural networks, Machine learning, LLM, LSTM, GAN, NLP, image, audio & text processing, encoder-decoder Other tools: git, AWS, azure, Kubernetes, docker, openAI, Librosa, Kaldi, streamlit, spacy, transformers, hugging face Work Experience Axtria, Bangalore Aug 2023 – Dec 2024 Data Scientist ● Reduced patient churn by 18% through a drug adherence prediction model leveraging LightGBM, SHAP, and prescription history to flag high-risk patients. ● Automated data validation workflows, reducing manual effort by 08% with Python scripts integrated into CI/CD pipelines. ● Reduced fraudulent transactions by 19% by deploying autoencoders along with classification techniques such as XGBoost. ● Boosted conversion rates by 20% by implementing K-means clustering with Python and 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 and optimize resource allocation. ● Eliminated manual complexity of writing SQL queries by building a plaitext to SQL converter using streamlit, llama and langchain.

Education IIT Hyderabad Aug 2021 - Jun 2023 M.Tech. in Computer Science and Engineering

Government Engineering College, Jabalpur Aug 2016 - Jun 2020 B.E. in Information Technology

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 a n 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. ● 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 analyzing banking reviews. The tools used were BERT, tensorflow, NLTK.

Certifications ● Neural Networks and Convolutional Neural Networks essential training. ● Prompt engineering for Generative AI.