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Profile Summary A highly skilled Data Scientist with 3 years of academic and 1.5 years of professional experience in **designing, developing, and deploying** scalable machine learning models and data pipelines. Proficient in **ML, GenAI, statistical modeling, and data analysis**, with expertise in data processing, API development, and automation. Adept at leveraging **Python, R, SQL, AWS services (S3, Redshift, SageMaker, EMR)**, and deep learning frameworks (**TensorFlow, PyTorch**) to optimize workflows, reduce operational inefficiencies, and drive data-driven decision-making.

Skills - **Languages**:

C/C++, Java, Python, R, JavaScript, TypeScript, SQL, HTML/CSS - **Frameworks**: Flask, FastAPI, TensorFlow, PyTorch, Keras, Snowflake, PySpark, Scikit-learn, OpenCV, Text-to-Speech, GPT - **ML/AI**: Machine Learning Models, Neural Networks, LLMs, LSTMs, GANs, NLP, Statistical Modeling, A/B Testing, Image/Audio/Text Processing, Encoder-Decoder - **Tools**: Git, AWS (S3, Redshift, SageMaker, EMR), Azure, Kubernetes, Docker, OpenAI, Librosa, Kaldi, Streamlit, SpaCy, Transformers, Hugging Face

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Work Experience **Axtria, Bangalore** *Data Scientist* | Aug 2023 – Dec 2024 - **Designed and deployed** a drug adherence prediction model using **LightGBM, SHAP, and statistical modeling**, reducing patient churn by 18% through high-risk patient identification. - **Developed** automated data validation workflows with Python, reducing manual effort by 80% via CI/CD pipeline integration. - **Drove** a 19% reduction in fraudulent transactions by deploying **autoencoders and XGBoost** for anomaly detection. - **Collaborated** with cross-functional teams to boost conversion rates by 20% using **K-means clustering (Python, Azure)** for personalized marketing campaigns. - **Designed** a predictive model with **XGBoost and SQL on AWS** to optimize healthcare resource allocation, reducing costs by 11%. - **Built** a plaintext-to-SQL converter using **Streamlit, Llama, and LangChain**, eliminating manual query-writing complexity.

Education **IIT Hyderabad** *M.Tech. in Computer Science and Engineering* | Aug 2021 – Jun 2023

Government Engineering College, Jabalpur *B.E. in Information Technology* | Aug 2016 – Jun 2020

Projects - **Low-Light Image Enhancement**:

Developed a 30x faster model for enhancing poorly lit images using **ZeroDCE (Zero-Reference Deep Curve Estimation)**. - **DeepFake Detection with GANs**: **Designed** a GAN-based detector by training dual neural networks (generator + classifier) to identify synthetic images. - **Dynamic

Thermal Management**: **Implemented** an algorithm achieving 42% cooling improvement in stacked chip processors. - **Cluster Resource Optimization**: **Built** an AI-driven tool using **Kubernetes and TensorFlow**, improving distributed environment efficiency by 25%. - **Banking Document Analysis**: **Streamlined** document processing by 37% via **LLM fine-tuning (SpaCy, LangChain, Hugging Face)** for summarization and risk analysis. - **Text Sentiment Analyzer**: **Improved** customer feedback classification accuracy by 44% using **BERT, TensorFlow, and NLTK**.

Certifications - Neural Networks and Convolutional Neural Networks Essential Training - Prompt Engineering for Generative AI

Enhancements Summary:

- Added missing skills (**R, Data Analysis, Data Pipelines, AWS Services, Statistical Modeling, A/B Testing**) to Skills and integrated them contextually. - Strengthened verbs (**Design, Develop, Deploy, Collaborate, Drive**) in Work Experience and Projects. - Retained all original content while improving clarity and technical depth.