SRIKANTH ALLIPURAM

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SUMMARY

A highly motivated and skilled Data Science and Generative AI graduate with a strong foundation in machine learning, deep learning, and large language models (LLMs). Proven ability to develop and implement end-to-end AI solutions, including predictive models, computer vision systems, and RAG-based applications. Seeking an entry-level role to apply technical expertise in Python, TensorFlow, LangChain, and NLP to solve real-world business challenges.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, NodeJS, JavaScript (Basics)
- **Libraries & Frameworks:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, TensorFlow, Keras, LangChain, Ollama
- **Data Science & ML:** Regression, Classification, Clustering, Predictive Modeling, Statistical Analysis
- **Deep Learning & GenAI:** Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Transformers, LLM Fine-Tuning, Retrieval-Augmented Generation (RAG), Text-to-Speech (TTS)
- **Web Frameworks & Deployment:** Django, FastAPI, Streamlit, HTML, CSS, Bootstrap
- **Tools & Platforms:** Power BI, Jupyter Notebook

PROJECTS

Offline PDF Q&A Chatbot with RAG

- Engineered an offline Retrieval-Augmented Generation (RAG) pipeline using LangChain and Ollama to query PDF documents, eliminating external API dependencies and ensuring data privacy.
- Implemented text extraction, chunking, and vector embedding generation to enable efficient semantic search and context-aware responses from LLMs.
- Deployed the application via a Streamlit UI, providing a user-friendly interface for knowledge extraction from unstructured documents.

Automated News Video Generator (GenAI)

- Developed an automated video creation pipeline by integrating LLMs for script generation, a Text-to-Speech (TTS) engine for voiceovers, and OpenCV for dynamic video overlays and subtitles.
- The end-to-end system reduced manual video editing and production time by approximately 80%, demonstrating strong capabilities in multi-model AI integration.

License Plate Recognition System

- Built a robust license plate detection and OCR model using Convolutional Neural Networks (CNN) and OpenCV, trained on a custom dataset of 200+ annotated images.
- Achieved over **90% accuracy** in character recognition, showcasing strong skills in image processing, model training, and hyperparameter tuning for real-world applications like smart parking.

Sales Forecasting Model

- Developed a time-series forecasting model using Scikit-learn to predict future sales trends based on historical data.
- Engineered relevant features and optimized model parameters, resulting in a **15% improvement** in prediction accuracy over baseline models.

EDUCATION

Master of Business Administration (Systems & Information Technology) | CGPA: 80%
Osmania University, Hyderabad | 2020 – 2022

Bachelor of Commerce (Computers) | CGPA: 69%
Osmania University

CERTIFICATIONS

- Generative AI with LLMs
- Python for Data Science and Machine Learning Bootcamp (Udemy)
- Data Science Training (EdustartNow, Hyderabad)
- Django Web Development with REST APIs (EdustartNow, Hyderabad)

LANGUAGES

- **English:** Professional Proficiency
- **Telugu:** Native Proficiency