SRIKAR CHINTALA

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PROFILE SUMMARY

B. Tech student in **Artificial Intelligence and Machine Learning** with strong skills in **analytical thinking** and problem-solving. Proficient in **Python**, **TensorFlow**, and **SQL**, with expertise in **Deep Learning**, **Generative AI**, and **Large Language Models (LLMs)**. Experienced in developing scalable AI solutions using modern frameworks.

PROJECTS

Personalized Customer Support ChatBot | GitHub | *Tech Stack: LLM, LangChain, ChromaDB, MySQL, HuggingFace*

- Developed a Retrieval-Augmented Generation (RAG) based AI chatbot for an e-commerce electronics store to handle product inquiries, returns, and order tracking using LangChain and Gemini 2.5 Pro LLM.
- Integrated Hugging Face sentence embeddings and Chroma vector store for document retrieval, enabling context-aware, natural language responses grounded in company data.
- Built dynamic SQL pipelines with LangChain agents to connect MySQL data to conversational AI.
- Designed an interactive Streamlit UI with authentication, profile management, and conversation history features.
- Built and managed a structured MySQL database for storing users, products, orders, and return information.

Sign Language Recognition Using LSTM | GitHub | *Tech Stack: LSTM, MediaPipe, OpenCV, TensorFlow, NumPy*

- Built an **LSTM-based deep learning** model with **TensorFlow** and Keras to translate sign language gestures into text, bridging communication gaps for hearing and speech-impaired users.
- Extracted keypoints from video frames using **MediaPipe** and **OpenCV**, enabling real-time gesture recognition with high accuracy (over 90%) for sequential hand movement data.
- Developed a scalable Python backend with OpenCV for live video processing, delivering an efficient and inclusive solution for real-time use.
- Visualized model performance using Matplotlib, optimizing training for 10 distinct gestures

Potato Leaf Disease Detection | GitHub | *Tech Stack: CNN, OpenCV, Matplotlib, Pandas, NumPy, TensorFlow*

- Developed a **Convolutional Neural Network (CNN)** model using Python and TensorFlow to classify potato leaf diseases from images, aiding farmers in early detection and crop management.
- Preprocessed and analyzed a dataset of leaf images with **OpenCV**, extracting features to train the CNN for accurate identification of common diseases (e.g., blight, wilt).
- Achieved 94% classification accuracy on validation data, and reduced model inference time by 20% through architecture optimization and batch processing, supporting agricultural decision-making with a scalable solution.

SKILLS

- **Programming Languages:** Python, Java, C, R, Prolog
- **Machine Learning and Data Science:** NLP, Deep Learning, TensorFlow, NumPy, Pandas, scikit-learn, PyTorch, OpenCV
- **Data Analytics & Visualization**: EDA, Feature Extraction, Data Cleansing, Matplotlib
- **Tools and Technologies:** Git, GitHub, VS Code, Jupyter Notebook, FastAPI
- **Database** and **Cloud Platforms:** MySQL, AWS
- **LLMs & frameworks:** Hugging Face, Groq Cloud, RAG Pipeline, ChromaDB, LangChain, Llama LLM, CrewAI, LoRa, QLoRa Fine-Tuning with Llama LLM

EXPERIENCE

Cloud Architect Trainee **Aug 2024 – Sep 2024**

ICT Academy in collaboration with AWS & Honeywell

- Completed a 60-hour intensive AWS Cloud Architecting training through AWS Academy, covering core cloud infrastructure and services.
- Gained hands-on experience in designing scalable, cost-efficient, and fault-tolerant architectures using AWS tools like EC2, S3, IAM, VPC, and RDS.
- Acquired practical skills in cloud best practices, including high availability, disaster recovery, cost optimization, and secure identity and access management.

EDUCATION

B. Tech in Artificial Intelligence and Machine Learning | CGPA 7.6 Dec 2021 – May 2025

Nalla Narasimha Reddy Education Society's Group of Institutions, Hyderabad

Intermediate (MPC) | 88.3% June 2019 – March 2021

Sri Chaitanya Junior College, Hyderabad

CERTIFICATIONS

- **GenAI** (Nvidia Academy)
- **AWS Cloud** (AWS Academy Graduate)
- **Python** (HakerRank)
- **Machine Learning**-Standford University (Coursera)