Sheshu Akula

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EDUCATION

University College of Engineering — Osmania University, Hyderabad
Bachelor of Engineering in Artificial Intelligence and Machine Learning — *2021-2025*

SKILLS

Programming Languages : Python
Database and Version Control : MYSQL, Git, Github
Python Frameworks : Flask, Streamlit
Data Science : Exploratory Data Analysis, Machine Learning, Deep Learning, Microsoft PowerBI, Retrieval-Augmented Generation(RAG)
Soft Skills : Team Work, Time Management, Communication

EXPERIENCE

AIML Intern — February 2025 – June 2025
Solix Technologies — *Hyderabad*

- Developed **REST APIs** in Flask for query handling, with scope to expose so that any frontend can access.
- Worked with LLM integration (Google Gemini), contextual memory (Qdrant DB), and RAG pipelines for enterprise knowledge retrieval.
- Built frontend-backend workflows, ensuring testing and integration were maintained.

PROJECTS

Automated Cricket Highlights Generator | *Python, Object Detection, OCR*

- Developed backend pipelines in Python for OCR + Object Detection, designed to be exposed via Flask APIs.
- Built a system to automatically generate cricket highlights using OCR for scoreboard change detection (4s, 6s, and wickets).
- Implemented bowler start time detection using YOLOv8 to accurately align deliveries with key match events.
- Merged all the events to make a complete highlighted video.

Student Attentiveness Analysis in Virtual Classrooms | *Python, Flask*

- Implemented ML + Deep Learning models integrated into a Flask backend API for real-time analysis.
- Collaborated on a project titled Student Attentiveness Analysis in Virtual Classrooms to improve engagement in online learning using emotion detection, head pose detection, and drowsiness detection to identify and address signs of disengagement.

Human Action Recognition | *Python, Deep Learning, Flask*

- **Developed a deep learning model for Human Action Recognition** using **Efficient-Net** for accurate video classification.
- Implemented functionality to classify videos from URLs and saved the trained model for scalable deployment.
- Utilized **EfficientNet** and **LSTM** architectures to capture spatial and temporal features in video data effectively.

IPL 2024 Dashboard | *Python, Web Srcaping, Power BI*

- **Created an interactive dashboard for IPL 2024** using **Python** and **Power BI** to enhance data visualization and insights.
- **Integrated web scraping and Pandas** to collect data, improving accessibility and enabling users to analyze IPL season statistics effectively.

CERTIFICATIONS

Data Analysis using Python - Free code camp
SQL Basic and Intermediate - Hackerrank
Python Basic - Hackerrank
Data Structures and Algorithms - Smart Interviews

HOBBIES

- Playing and watching Cricket.