Manjunathareddy Sagili

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Summary

Aspiring **Machine Learning Engineer**, **Python Developer**, and **AI Intern** with practical experience in building and deploying full-stack AI applications. Proficient in **Python, TensorFlow, Flask, Streamlit, Scikit-learn**, and model evaluation. Developed gesture-controlled interfaces, time-series predictors, and image classification tools. Looking for impactful roles in ML engineering or backend AI development.

Skills

Languages: Python, JavaScript, HTML, CSS, SQL
Frameworks: TensorFlow, Keras, Flask, Streamlit
Libraries: Pandas, NumPy, OpenCV, MediaPipe, Scikit-learn, Pygame
Concepts: CNN, LSTM, GRU, Time-Series Forecasting, Image Classification,
Tools: GitHub, VS Code, Google Colab

Education

B.Tech in Computer Science and Engineering **2022 – 2026**
Kalasalingam Academy of Research and Education — CGPA: 8.30/10

Class XII – AP Board 2020 – 2022
Sri Chaitanya College — Percentage: 92.4%

Class X – AP Board 2018 – 2020
Sri Raghavendra EM High School — CGPA: 8.93/10

Projects

Brain Tumor Classification using CNN+LSTM [GitHub]
Tools: TensorFlow, CNN, LSTM, NumPy, Keras

- Designed a hybrid CNN-LSTM model to detect brain tumors using MRI sequences.
- Applied spatial-temporal feature extraction, achieving 90%+ accuracy on validation data.
- Evaluated models using precision, recall, and cross-validation techniques.

Gesture-Based Virtual Keyboard [GitHub]
Tools: OpenCV, MediaPipe, Pygame, Python

- Built a vision-based virtual keyboard controlled via fingertip tracking and pinch detection.
- Implemented real-time gesture recognition with latency optimization for smooth typing.
- Designed custom UI layout with Pygame and supported multi-hand interactions.

Water Quality Prediction Web App [GitHub]
Tools: Flask, Streamlit, LSTM, GRU, Scikit-learn

- Developed a full-stack ML app to assess water potability using physicochemical attributes.
- Trained and compared LSTM and GRU models achieving 85%+ accuracy.
- Deployed the model as a REST API using Flask and created a Streamlit-based UI dashboard.

Achievements

2nd Place – National Hackathon, Thiagarajar College
Led the ML model design and frontend integration in a 24-hour development sprint.

Certifications

Foundations of Web Development — Udemy
Python for Beginners — Scaler Academy

Additional Information

Hobbies: Competitive Programming, Hiking, Traveling, Cricket, Music