Manjunathareddy Sagili

- sagilimanjunathareddy@gmail.com   - +91 9182919149
- Nandyal, India
- github.com/sagilimanjunathareddy   - linkedin.com/in/sagilimanjunathareddy

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. Built gesture-controlled interfaces, time-series predictors, and image classification tools. Passionate about using AI to solve real-world problems with measurable impact.

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

- Trained CNN-LSTM model on 3,000+ MRI images for early tumor detection with 90%+ accuracy.

- Reduced model false positives by 12% using optimized preprocessing and time-series windowing.

- Enhanced diagnostic performance over baseline models by 8% through spatial-temporal feature engineering.

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

- Developed virtual keyboard with <50ms latency using hand gesture recognition and fingertip tracking.

- Achieved 93% recognition accuracy across 15+ gestures tested on 5+ users.

- Improved accessibility by enabling touchless typing and multi-hand interaction in real time.

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

- Built ML app using LSTM and GRU to predict potability from 2,000+ water quality records with 87% accuracy.

- Reduced response time by 30% through optimized REST API and Streamlit dashboard.

- Enabled real-time predictions via Flask backend and user-friendly input interface.

Achievements

2nd Place – National Hackathon, Thiagarajar College
Led ML pipeline development and frontend integration under 24-hour build constraints.

Certifications

Foundations of Web Development — Udemy   [View Certificate]
Python for Beginners — Scaler Academy   [View Certificate]

Additional Information

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