Manjunathareddy Sagili

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Professional Summary

Computer Science undergraduate with project-based experience in full-stack web development using HTML, CSS, JavaScript. Proficient in MySQL and Git, with a strong foundation in front-end design, responsive UI development, and back-end integration. Adept at building and deploying secure, scalable web applications, and passionate about delivering optimized, maintainable code. Eager to contribute to enterprise-grade WordPress solutions by leveraging a strong understanding of coding standards, plugin development, and CMS customization.

Technical Skills

Languages: Python, SQL, JavaScript, HTML5, CSS3
Libraries/Frameworks: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, OpenCV, MediaPipe
Concepts: Supervised/Unsupervised Learning, CNN, LSTM, Time Series Analysis
Tools/Platforms: Flask, Streamlit, Git, GitHub, VS Code, Jupyter

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, Keras, NumPy

- Engineered and trained a hybrid CNN-LSTM model on 3,000+ MRI scans, achieving over 90% classification accuracy.
- Enhanced model generalization by applying data augmentation and optimizing image preprocessing.
- Leveraged temporal-spatial features to improve diagnostic performance by 8% over baseline.

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

- Designed a real-time gesture recognition keyboard with sub-50ms latency using computer vision and MediaPipe.
- Achieved 93% recognition accuracy across 15+ unique gestures through rigorous testing.
- Integrated a predictive text system using Transformer models to improve typing speed and user experience.

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

- Developed an interactive web app to predict potability of water samples using time-series models (LSTM, GRU).
- Achieved 87% accuracy by optimizing hyperparameters and implementing robust evaluation metrics.
- Improved backend efficiency by 30% using optimized API routing and asynchronous rendering.

Achievements

2nd Place – National Hackathon, Thiagarajar College
Recognized for leading the complete ML pipeline and UI integration under a strict 24-hour deadline.

Certifications

Foundations of Web Development — Udemy [View Certificate]
Python for Beginners — Scaler Academy [View Certificate]
AI For Beginners — HP Life [View Certificate]

Additional Information

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