Manjunathareddy Sagili

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Summary

Aspiring **Software Development Engineer Intern** with a strong foundation in **computer science fundamentals** including data structures, object-oriented design, algorithms, operating systems, and complexity analysis. Proficient in **Python** with practical experience building scalable distributed systems and AI-powered applications. Demonstrated ability to work in agile environments, solve complex problems, and contribute to impactful projects aligned with customer needs.

Skills

Languages: Python, JavaScript, HTML, CSS, SQL
Frameworks: TensorFlow, Keras, Flask, Streamlit
Libraries: Pandas, NumPy, OpenCV, MediaPipe, Scikit-learn, Pygame
Concepts: Data Structures , Operating Systems, Time-Series Forecasting, Image Classification
Tools: GitHub, VS Code

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 over 90% accuracy.
- Reduced false positives by 12% through data augmentation and optimized preprocessing.
- Improved diagnostic performance by 8% over baseline using spatial-temporal features.

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

- Developed a virtual keyboard with under 50ms latency using real-time hand gesture tracking.
- Achieved 93% gesture recognition accuracy across 15+ gestures with multi-user testing.
- Integrated predictive typing using Hugging Face Transformers to enhance usability.

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

- Built a web app using LSTM and GRU to predict water potability from 2,000+ records with 87% accuracy.
- Reduced response time by 30% with optimized Flask backend and REST API.
- Enabled real-time predictions through a clean UI and responsive web design.

Achievements

2nd Place – National Hackathon, Thiagarajar College
Led end-to-end ML model development and frontend integration under a 24-hour constraint.

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, Traveling, Cricket, Music