# Manjunathareddy Sagili

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

## Professional Summary

Computer Science undergraduate with project-based experience in Machine Learning and AI. Proficient in Python, TensorFlow, and Scikit-learn, with skills in deep learning, time-series forecasting, and model deployment using Flask and Streamlit. Adept at developing and delivering real-world ML solutions from data preprocessing to production-ready applications.

## 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