RAJU BANDAM

Bachelor of Technology
MALLA REDDY UNIVERSITY,KOMPALLY ,HYDERABAD

📞 +919121455643
✉ rajubandam694@gmail.com
⌂ rajureddi
in RAJU BANDAM ⊕ rajureddie.site

PROFESSIONAL SUMMARY

Motivated Computer Science and Engineering student specializing in AI/ML with strong hands-on experience in building real-time intelligent systems, full-stack applications, and automation tools. Skilled in developing end-to-end solutions Experienced in Python, Java, React, Flask, and deep learning workflows, with a strong command of data structures, algorithms, and cloud deployment.

EDUCATION

•**Bachelor of Technology in Computer Science and Engineering (AIML)**   *2022-26*
MALLA REDDY UNIVERSITY   CGPA: 8.6

•**INTERMEDIATE - MPC**   *2020-22*
SR JUNOIR COLLEGE   90.1%

RELEVANT COURSEWORK

- Data Structures
- Object-Oriented Programming
- Database Management
- AI ML

- Python Programming
- Java Programming
- Full-Stack Development

- (React,Nodejs/Flask)
- Data Analytics with NumPy,Pandas

PROJECTS

BACKLOG WALLAH! | *Python, Android App*   **January 2023**
- Developed an android application built with kivy framework for helping in clearing backlogs in Engineering semester.
- Used python native features for streaming classes ,downloading syllabus.

Voice2Sign – Indian Sign Language Translator | *Python, Tkinter, SpeechRecognition, RapidFuzz*   **2025**
- Developed a real-time application that converts live voice into Indian Sign Language animations using a hybrid GIF + letter-fallback system.
- Implemented speech endpoint detection, waveform visualization, fuzzy matching, and auto GIF scanning for seamless ISL translation.
- Built a modular sign pipeline allowing users to add custom ISL GIFs or download new signs from **talkinghands.co.in** and extend recognition using mapping.json.

AI-Based Smart Traffic Management System | *Python, Computer Vision, Deep Learning, Flask, IoT*   **2024**
- Designed an advanced traffic management platform integrating deep learning models for vehicle detection, traffic sign classification, and congestion analysis.
- Implemented dynamic signal control that adapts automatically to traffic density, emergency vehicles, and road priorities.
- Integrated modules from an open-source SIH traffic system and extended them with new features: accident detection, red-light violation monitoring, vehicle-count analytics, and real-time dashboard visualization.
- Developed a backend using Flask and Python for live video stream processing and deployed the system on edge-compatible hardware.

Blockchain Certify | *Solidity, JavaScript, Web3.js, Ethereum Testnet*   **2024**
- Built a decentralized certificate issuance and verification system using Solidity smart contracts deployed on an Ethereum testnet.
- Created a three-role architecture: colleges issue certificates, students manage them, and recruiters verify authenticity instantly using Web3.js.
- Enabled tamper-proof storage, hashed credential records, and instant verification with no third-party dependency.

BERT-Based Named Entity Recognition System | *Python, Transformers, React, Flask*   **2023**
- Developed a full-stack NER system using a fine-tuned BERT model with support for both text-based and image-based entity extraction via OCR.
- Designed a React frontend with entity filters, image upload options, and color-coded entity visualization.
- Built a Flask backend API, deployed the system on AWS EC2 (t3.micro), and optimized model inference for low-latency responses.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Javascript,Java HTML+CSS
Libraries :Python Libraries,KivyMD,Kivy ReactJs,WebJs,AngularJS
Web Dev Tools: Nodejs, VScode, Git, Github
Areas of Interest: Web Design and Development, Blockchain,AIML.
Soft Skills: Problem Solving, Self-learning, Creativity