

# RAJU BANDAM

Bachelor of Technology  
MALLA REDDY UNIVERSITY,KOMPALLY ,HYDERABAD

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## 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

<b>Bachelor of Technology in Computer Science and Engineering (AIML)</b> <i>MALLA REDDY UNIVERSITY</i>	2022-26 CGPA: 8.6
<b>INTERMEDIATE - MPC</b> <i>SR JUNIOR COLLEGE</i>	2020-22 90.1%

## RELEVANT COURSEWORK

- |                               |                          |                       |
|-------------------------------|--------------------------|-----------------------|
| • Data Structures             | • Python Programming     | (React,Nodejs/Flask)  |
| • Object-Oriented Programming | • Java Programming       | • Data Analytics with |
| • Database Management         | • Full-Stack Development | NumPy,Pandas          |
| • AI ML                       |                          |                       |

## PROJECTS

<b>BACKLOG WALLAH!</b>   <i>Python, Android App</i>	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.	
<b>Voice2Sign – Indian Sign Language Translator</b>   <i>Python, Tkinter, SpeechRecognition, RapidFuzz</i>	October 2024
– 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 <b>talkinghands.co.in</b> and extend recognition using mapping.json .	
<b>AI-Based Smart Traffic Management System</b>   <i>Python, Computer Vision, Deep Learning, Flask, IoT</i>	NOVEMBER 2025
– 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.	
<b>Blockchain Certify</b>   <i>Solidity, JavaScript, Web3.js, Ethereum Testnet</i>	NOVEMBER 2025
– 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.	
<b>BERT-Based Named Entity Recognition System</b>   <i>Python, Transformers, React, Flask</i>	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