

RAJU BANDAM

B.Tech — Computer Science and Engineering (AIML)
Malla Reddy University, 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, ML workflows, with a strong command of data structures, algorithms, and cloud deployment.

EDUCATION

B.Tech in Computer Science and Engineering (AIML) Malla Reddy University	2022–2026 CGPA: 8.6
Intermediate – MPC SR Junior College	2020–2022 90.1%
SSC ZPSS T/EM CHENNUR	2020 CGPA: 10

RELEVANT COURSEWORK

DSA, Algorithms, DBMS, AI/ML, Deep Learning, NLP, CV, Full-Stack Development, Data Analytics

PROJECTS

- Voice2Sign – Real-Time Indian Sign Language Translator** 2025
 - Developed a real-time voice-to-ISL system using Python, Tkinter, SpeechRecognition, RapidFuzz, and OpenCV.
 - Achieved **92% speech recognition accuracy** with endpoint detection and waveform-based segmentation.
 - Implemented hybrid GIF + letter fallback rendering with auto GIF scanning and custom sign support.
- AI-Based Smart Traffic Management System** 2024
 - Built deep-learning traffic analytics using YOLO-based vehicle detection, sign classification, and congestion heatmaps.
 - Reduced signal wait time using dynamic green-time adjustments driven by density predictions.
 - Integrated Flask backend for processing **25–30 FPS** feeds with congestion evaluation and violation detection.
 - Enhanced emergency lane prioritization achieving **faster clearance**.
- TurantPay-Offline UPI App (Kotlin,NPCI *99#)** 2024
 - Developed a secure Android-based GUI over official NPCI *99# USSD UPI framework to simplify internet digital paymanets.
 - Implemented **QR-to-USSD,Mobile No.,Transfer to bank** features payments in the app.
 - Earned technical appreciation from **NPCI’s UPI** for enhancing financial inclusion by providing a secure, internet-free payment solution for low-connectivity regions.
- Built BERT-based NER** using Transformers, Scikit-learn, HuggingFace, and OCR, deployed on AWS EC2.
 - Designed React frontend for dynamic entity filtering and batch document processing.
- Backlog Wallah — Learning Support App** 2023
 - Developed an Android education-support app using Python + KivyMD enabling access to syllabus, materials, and recorded classes.

CERTIFICATIONS

- NPTEL Certification — Java Programming
- Google Crash Course on Python (2024)
- AWS Academy Cloud Foundations (In Progress)

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript
FrameWorks: React, Flask, Node.js, FastAPI, KivyMD
ML/AI: TensorFlow, PyTorch, Scikit-learn, OpenCV,

HuggingFace, NLP, CV, Transformers
Tools: Git, Firebase, MongoDB, MySQL, AWS
Interests: ML Systems, Web Apps, Deployment