Kandula Manoj Kumar

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# Education

Mohan Babu University (2022 – 2026)  
Bachelor of Technology - Computer Science and Engineering

Narayana Junior College (2020 – 2022)  
Board of Intermediate Education - MPC

Sri Chaithanya Techno School (2019 – 2020)  
Board of Secondary Education - Science

# Technical Skills

• Programming Languages: Java, Python, C, SQL

• Web Development: HTML, CSS, JavaScript, React.js, Bootstrap

• Backend Development: Node.js

• Databases: MySQL, MongoDB

• Cloud & DevOps: Git, GitHub

# Projects

* AI-Powered Advanced Fire Fighting Robot

- Designed and implemented an AI-driven autonomous fire-fighting robot with thermal imaging, reducing fire response time by 30%.  
- Developed an object detection model for early fire identification, improving efficiency in hazardous environments.  
- Tech Stack: AI Processor, Thermal Camera, Autonomous Navigation Sensors, Python.

* Space Debris Removal System

- Developed an AI-driven system for tracking and managing space debris, reducing collision risks for satellites by 40%.  
- Implemented electrostatic propulsion and AI-based tracking for enhanced orbital navigation.  
- Tech Stack: AI-based tracking, Electron Beam Generator, Electrostatic Charge Control, Orbital Navigation System.

* DSA Learning Platform

- React, Node.js, Express, MongoDB, Tailwind  
- Built a responsive app for DSA practice with filters, progress tracking, notes, and difficulty levels.  
- Integrated 100+ curated problems with real-time status tracking.

* Smart Biogas Monitoring

- Python, Flask, SQLite, Raspberry Pi, ML  
- IoT system to monitor temperature, pH, and methane in biogas digesters using sensors and camera.  
- Built real-time dashboard with logging, charts, and gas production prediction using ML.

* FindThePlate – License Plate Recognition

GitHub: github.com/manojkandula2303/findtheplate — Live: findtheplate.onrender.com  
- Python, Flask, Tesseract OCR, Google Drive API  
- Implemented OCR-based web app for automatic license plate detection with preprocessing.  
- Integrated Google Drive API for secure storage and built a responsive upload UI.

# Certifications & Achievements

• Infosys Java Foundation Certification (2024) – Proficient in OOP, Data Structures, and Java-based application development.

• AWS Cloud Practitioner (2024) – Hands-on experience with EC2, S3, Lambda, IAM.

• Smart India Hackathon (2023) – Selected in Round 2 among 5,000+ teams for AI-based automation project.

• Innovation Ambassador Program, IIC-MHRD (2024–25): Completed Foundation, Reskilling, and Online Training under the Innovation Ambassador initiative

# Soft Skills

• Problem-Solving & Debugging

• Team Collaboration & Leadership

• Adaptability & Critical Thinking

• Effective Communication

• Business Analysis & Investment Strategies

# Extracurricular Activities

• Community Project: Conducted a baseline survey in a CSR-funded project to improve digital literacy.

• Freelancing: Completed 10+ freelance projects on Fiverr & Upwork, achieving 80% client satisfaction.

• Investment Research: Analyzed market trends and created investment portfolios for business growth.

• Sports: Two-time district-level athletics champion in sprinting.

# Hobbies

Photography, Listening to Music, Playing Cricket, Video Editing

# Languages

Telugu (Native), English (Professional Fluency), Hindi (Conversational)