

Venkat Madhu Mohan

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PROFILE

Computer Science student skilled in DSA (C++), full-stack development (MERN), and AI/ML. Built real-world projects, led teams, and solved practical problems with effective, scalable solutions.

EDUCATION

Keshav Memorial College of Engineering

Telangana, India

Bachelor of Technology in Computer Science and Engineering

2024 – 2027 | CGPA: 8.35

SKILLS

Technical: C, C++, Python, JS, SQL, HTML, CSS, **Tailwind**, Bootstrap, **Machine Learning**, Deep Learning, **DSA**

Tools: React.js, **Node.js**, Express.js, MongoDB, SQL, PyTorch, **OpenCV**, **YOLO**, **Vision Transformers (ViT)**, GitHub, Postman, XAMPP, Flask, Tableau, Power BI, Google Colab, VS Code

PROJECTS

[Inspectify - AI-Powered Road Damage Detection Platform](#) (Team Lead)

02/25 - 5/25

- Built a real-time **AI-powered web application** using **MERN** stack, integrating **Vision Transformer (ViT)** and **YOLO** models with PyTorch to detect road damage with over **90%** classification accuracy.
- ViT, YOLO, and PyTorch for **AI** implemented the **full-stack system** using React.js, Node.js, and MongoDB with geolocation and webcam integration.
- Automated prediction logging with **geo-tagging**, timestamps, and **real-time notifications**, enabling detection of **500+** real-world road issues and streamlining the monitoring workflow.

[Inventory Management System](#) (Co-ordinator)

05/24 - 6/24

- Spearheaded the transition from a **manual inventory system to a digitized platform**, resulting in auto-generated receipts/issue vouchers and **mitigated discrepancies by 15%**, leveraging XAMPP with CGI scripting.
- Constructed a scalable web application using Python, HTML, and SQLite, deploying on **XAMPP with CGI scripting**, facilitated seamless server-client communication.
- Handled 10+ item categories with **real-time tracking**, generated auto-receipt/issue vouchers, and reduced processing time for indents by over **50%**.

[Residential Services Web App](#) (Sole Developer & UI Lead)

11/24 - 1/25

- Built and deployed a web portal used by over **200+ residents** to log service requests, view announcements, and streamline communication in a gated community.
- Developed using **HTML, CSS, JavaScript, and Bootstrap** with a **mobile-first responsive UI**, ensuring accessibility.
- Handled **50+ service requests** in the first month post-deployment and improved resolution efficiency by **30%** through centralized tracking and updates.

ACHIEVEMENTS

- Solved **250+** coding problems across platforms like LeetCode, CodeChef, Codeforces, and HackerRank.
- Branch Lead** of the Technical Club at Keshav Memorial College of Engineering, organizing tech events.