

# Venkat Madhu Mohan

+91-7989841960 | [venkatmadhumohann@gmail.com](mailto:venkatmadhumohann@gmail.com) | [Portfolio](#) | [Github](#) | [www.linkedin.com/in/venkatmadhu](https://www.linkedin.com/in/venkatmadhu)

## PROFILE

Computer Science student with hands-on experience in DSA (C++), full-stack development (MERN), and AI/ML. Led multiple real-world projects and built scalable solutions to solve practical problems.

## 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, **DSA**, HTML, CSS, Tailwind, Bootstrap, **Machine Learning**, **Deep Learning**

**Tools:** React.js, **Node.js**, Express.js, MongoDB, SQL, PyTorch, **OpenCV**, **YOLO**, **Vision Transformers (ViT)**, GitHub, Postman, XAMPP, Flask, 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-based web application** to detect road damages using Vision Transformer (ViT) and YOLO models built with PyTorch.
- Developed the full-stack system using **MERN** (MongoDB, Express.js, React.js, Node.js) with integrated webcam capture and geolocation.
- Enabled automated logging of **500+** road damage predictions with **geo-tagging**, timestamps, and **real-time alerts**, streamlining monitoring and reporting processes.

[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%**.
- 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, organized coding contests, tech talks, and peer sessions.