

Aman Singh

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EDUCATION

Fr.C Rodrigues Institute of Technology

Bachelor of Engineering in Information Technology

Navi Mumbai, Maharastra

Nov 2021 – May 2025

- Cumulative GPA : **9.64/10.0**
- Relevant Coursework: Machine Learning, Data Structure and Algorithm, Operating System, Networking

WORK EXPERIENCE

Research Intern

Indian Institute of Science Education and Research

July 2023 - Present

Mohali, Punjab

- Developed **Hand Sign Recognition** system to communicate with hearing-impaired people effectively.
- Co-developed a **Car Accident Detection** system with a team, achieving real-time detection with 95% accuracy.

Full Stack Developer Intern

PiratesAlert

Nov 2023 - Feb 2024

Vashi, Maharastra

- Engineered automated web solutions that scraped data from 7+ e-commerce sites, successfully identifying and reporting over 1,000 instances of piracy, which resulted in enhanced **brand protection**
- Developed a scalable **web scraping solution**, automating data extraction with LLM from 10+ e-commerce sites, reducing manual setup time by 80 %
- Developed a Genuine-Website Tracker to monitor fake websites for specific vendors and **GST-Checker** to validate GST numbers and authorized products

PROJECTS

Road Damage Detection 📷

- Built an **AI-based road damage detection system** using YOLOv8 to identify different types of road damages from images.
- Developed a mobile app for users to report damages, view them on a map, and check damage types.
- Implemented a FastAPI backend to run the model, store results, and handle user reports.
- Designed an admin panel to verify reports and update maintenance progress.
- Tech Stack: Python,YOLOv8, FastAPI, React Native.

URL Shortener & File Sharing 🔗📁

- Developed a **URL shortener** with 4-character links and encryption for enhanced security.
- Implemented a **file-sharing** feature with lossless compression to maintain file integrity.
- Developed a **Anonymous Chat-rooms** feature using Socket.io, enabling real-time communication for multiple users, where anyone with the unique room ID can join instantly, ensuring anonymity.
- Built an intuitive user interface for easy navigation and management of links and files.
- Utilized Node.js,ReactJS MongoDB,REST and Express.js for development and deployment.

TECHNICAL SKILLS

Programming Languages: Basics of Java, C/C++,Javascript

Frameworks / Tools: Express, Node.js, Django, React.js

Areas of Interest: Backend-Web Development, ML

Soft Skills: Problem solving, Time management, Team player

SCHOLASTIC ACHIEVEMENTS

- Selected among the **top 150 teams** from ZS Campus Beat Tech Challenge 2024
- **Second rank** in Hacksparrow Hackathon organized by Terna College Nerul 2024
- Rank **2854** in TCS CodeVita XI 2023
- Runner-Up TechNight Hackthon organized by CSI-FCRIT 2023