

Ayushman Singh

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EDUCATION

Sardar Vallabhbhai National Institute of Technology

Bachelor of Technology in Computer Science and Engineering

Surat, Gujarat

August 2024 – Present

- Current CGPA: 9.02/10.0
- Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Database Management System, Object Oriented Programming, Computer Organization, Web Programming and Python

Mount Index International School

Higher Secondary Certificate (CBSE)

2024

- Score: 90.4%

A.S.M.P. Public School

Secondary School Certificate (CBSE)

2022

- Score: 95.2%

EXPERIENCE

Summer Research Intern

May 2025 – June 2025

MNNIT Allahabad, Prayagraj

On-site

- Developed an AI-based **single-person tracking system in dense crowds** for Mahakumbh 2025 to aid public safety and surveillance.
- Implemented real-time **object detection and tracking** using **YOLO** with **OpenCV** and **NumPy**.
- Applied **Kalman Filter** and appearance-based re-identification to handle occlusions and identity switches.
- Visualized movement trajectories for crowd behavior analysis.
- Conducted the project under the mentorship of **Dr. Anubhav Rawat**.

PROJECTS

TransitFlow | React, Node.js, Express, MongoDB

Website | GitHub

- Built a one-stop transportation platform addressing urban mobility challenges as part of Web Wonders.
- Implemented real-world solutions including **car pooling** and **smart parking** to reduce traffic congestion.
- Designed and integrated **Future Transport**, a visualization module showcasing next-generation transport systems.
- Developed responsive and modular UI components using React, ensuring cross-device compatibility.
- Collaborated in a team-based environment using Git for version control and feature integration.

ExamMaster | HTML, CSS, EJS, Express, MongoDB

GitHub

- Developed a full-stack web platform to enhance **JEE Advanced** preparation through structured testing.
- Implemented multiple question formats including single-correct, multi-correct, and numerical-based questions.
- Built test analytics and performance tracking to help users identify strengths and weaknesses.
- Designed a leaderboard system to encourage competition and consistent practice among students.
- Managed backend logic and database schema using Express.js and MongoDB.

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, C, HTML/CSS, SQL

Frameworks: React, Node.js, Express.js, Tailwind CSS, YOLO

Libraries: PyTorch, NumPy, OpenCV, Matplotlib

Tools: Git, GitHub

COMPETITIVE PROGRAMMING

- **LeetCode:** Rating 1573, 600+ problems solved
- **Codeforces:** Rating 1121
- **CodeChef:** Rating 1243

ACHIEVEMENTS

- Secured **1st Rank** in **Web Wonders**, a web development competition organized by NIT Surat.
- Secured **AIR 948** among **2248 teams** in ICPC Asia Amritapuri Regional Online Preliminary Contest.