

# AMAN PATRE

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## SUMMARY

Computer Science student at VIT Bhopal with hands-on experience in the **MERN stack**. Passionate about building user-focused applications and exploring real-world problem-solving through technology. I've contributed to **open-source** projects and participated in **hackathons**, and I'm currently diving into **machine learning** to broaden my skill set and explore its practical applications.

## EDUCATION

### VIT Bhopal University

Sehore, Madhya Pradesh | 2023 – Present

B.Tech, Computer Science and Engineering

- **Current CGPA: 8.76**

### St. Aloysius Sr. Sec. School

Jabalpur, Madhya Pradesh | 2011-2023

- **12<sup>th</sup> Percentage: 84%**

## SKILLS

**Web Development:** MERN Stack (MongoDB, ExpressJS, ReactJS, NodeJS), HTML, CSS, JavaScript, Tailwind CSS, Bootstrap

**Programming Languages:** C++, Java, Python, JavaScript

**Tools & Technologies:** Git, GitHub, Postman, JWT, MongoDB Atlas, Docker(basic), Render, Multer

## PROJECTS

### FoodIn – Food Delivery Website (MERN STACK)

- Developed a full-stack food delivery platform allowing users to browse menus, place orders, and simulate payments via Stripe.
- Built an **admin panel** for managing menu items, tracking orders, and updating order statuses.
- Implemented **JWT-based authentication** and **password encryption** with bcrypt for **secure** user login.
- Handled menu image uploads using **Multer** with seamless integration into the menu management system.
- Technologies: **ReactJS, NodeJS, ExpressJS, MongoDB**, Tailwind CSS, JavaScript, Multer, Stripe, bcrypt, JWT

### Schedulo – Time Table Manager (MERN STACK)

- Built a full-stack time table manager to store and retrieve exam time table details.
- Applied **CRUD** operations for easy management of stored entries.
- Technologies: ReactJS, NodeJS, ExpressJS, MongoDB, Tailwind CSS, JavaScript

## EXPERIENCE

### Core Member – AI Club Web Team, VIT Bhopal

- Collaborated with team members to develop responsive club webpages and implement **event features**.

### GSSoC (GirlScript Summer of Code) Contributor

- Fixed issues, added new features, and improved documentation in **open-source** projects.

## ACHIEVEMENTS

**3rd Place Winner in College Hackathon** - Organized by a college club, developed a **UI/UX-based web page** using HTML, CSS and JavaScript showcasing the history, impacts, and milestones of the Mozilla Firefox browser.

**Top 20 Finalist out of 700+ Teams – CodeForge'25 Hackathon** - Our project “**Dynamic Route Rationalisation using Machine Learning and SUMO**” was selected for the Grand Finale held at the **Microsoft Office, Gurugram, Haryana**. We developed a system that predicts congestion using **LSTM** models and dynamically **re-routes vehicles with A\* algorithm**, simulated in **SUMO**. This project showcased real-time decision-making in urban mobility and was praised for its innovation and real-world applicability.