Mitul Patil

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PROFILE

I am pursuing Computer Science and Engineering at Parul University. I enjoy working on full-stack projects, creating responsive and user-friendly web apps. Recently, I've been exploring AI by building AI agents and testing their use in solving everyday problems.

EDUCATION

Parul University **Sept 2022 – May 2026**
B. Tech - Computer Science and Engineering | **CGPA: 8.36** Vadodara, Gujarat

Shree Maharaja Rajendrasinhji Vidhalaya **June 2021 – May 2022**
HSC | **72.80%** Rajpipla, Gujarat

Shree Maharaja Rajendrasinhji Vidhalaya **July 2019 – May 2020**
SSC | **79.33%** Rajpipla, Gujarat

INTERNSHIP

Python Programing Intern | *Ybi Foundation* **Sept 2024 – Oct 2024**

- Built a strong foundation in Python Programming and its applications in data science, machine learning.
- Work on Python libraries (Panda, NumPy, Matplotlib, Seaborn, Scikit-learn) for data analysis, Visualization and machine learning.
- Worked on real World Project: Movie Recommendation System, Milage Predication System.

PROJECTS

Real-Time Chat & Video Call Application | Node.js, Express.js, Socket.IO, WebRTC, EJS, Tailwind CSS link | Github

- Built a web application enabling real-time text chat and 1-on-1 video calls for up to 10+ simultaneous active users.
- Implemented peer-to-peer video/audio streaming using WebRTC with Socket.IO as the signaling server, achieving latency under 200ms.
- Added features like incoming call notifications, hangup, and mic/camera toggle, improving usability by 30% in user testing.
- Ensured cross-browser compatibility (Chrome, Firefox, Edge) and handled 100% of disconnect/reconnect cases during testing.

Animated Website | HTML, CSS, JavaScript, GSAP Github

- Developed a fully functional animated website with 100% mobile responsiveness, tested on 15+ device sizes.
- Enhanced performance by reducing animation load time by ~30% through code optimization.
- Implemented DOM manipulation and CSS transitions for interactive effects.

Movie Recommendation System | Pandas, NumPy, Matplotlib Github

- Built a recommendation system trained on a dataset of 5,000+ movies using Pandas, NumPy, and Matplotlib.
- Suggested movies based on user preferences, genres, and ratings, achieving ~80% similarity accuracy with cosine similarity.
- Handled data preprocessing, feature extraction, and cleaning to improve model performance.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript
Frontend Technologies: React.js, Redux, Tailwind CSS, Figma, UI/UX, HTML, CSS
Backend Technologies: Node.js, Express.js, Socket.io, Axios, REST APIs
Developer Tool: Postman · Git · GitHub
Databases & Cloud: MongoDB · MySQL

COMPETITION

Azadi ka Amrit Mahotsav Hackathon 2022(Runner-up)
ORGANISED BY SSIP
Project: IoT Smart Dustbin

- Designed and implemented a smart dustbin using Arduino Nano and ultrasonic sensors to monitor garbage levels in real-time.
- Developed a notification system to automatically alert municipal authorities when the dustbin is full.