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leetcode.com/u/Madhansingh
skillrack.com/faces/resume.xhtml?id=421283&key=d18ec102b1
91f07ee4b30c9d64d195028eff89e7
geeksforgeeks.org/user/tmadhansuj2n

About Me

A passionate and analytical third-year student with strong programming and problem-solving skills. Always eager to explore new technologies, I thrive on challenges that drive innovation. With a fast-learning mindset and strategic approach, I embrace diverse projects to expand my expertise and create impactful solutions.

Professional Experience

MIT Rusa 2.0(Intern)

Front-End Developer :   **6 May 2024 – 20 May 2024**

Developed a basic web portal for a Battery Management System using React.js and Tailwind CSS, ensuring a responsive User Interface for monitoring battery performance for Electric Vehicle

Thangamayil Jewelers(Intern)

Quality Analyst(Software Tester):   **11 July 2024 - 26 July 2024**

Served as a Quality Analyst at Thangamayil Jeweler's IT Management Center, Analyzing and Testing the Thangamayil DigiGold app under development (2024). Contributed ideas, Adhered to project guidelines and documented daily progress, gaining valuable insights into the IT sector's workflow and Quality Assurance processes.

Zenskar-Solutions(Intern)

Front-End Developer :   **8 Jan 2025 – 28 Jan 2025**

Gained hands-on experience in React.js at Zenskar Solutions, Focusing on Component-based Architecture, React Hooks and responsive UI with Tailwind CSS. Enhanced creativity and problem-solving skills in Front-End Development.

Mini Projects

Hospital Room Data Analysis:

Developed interactive **Power BI** dashboards for Hospital Room Data Analysis and Emergency Room Management, providing actionable insights on occupancy trends, patient demographics, wait times, and department referrals. Optimized operational efficiency by analyzing room turn around times and patient's case manager workloads. Designed custom reports and intuitive visualizations to enhance healthcare service delivery.

Gemini-Clone(Api-Key):

Built a Gemini AI clone using the Gemini API with React based **Vite.js**, replicating key components for an intuitive user experience. Integrated AI-powered responses and seamless UI interactions to enhance usability. Deployed on Vercel for high performance and accessibility. Showcased expertise in API integration, frontend development and AI-driven applications.

Face Recognition:

Developed a Face Recognition Attendance System using OpenCV's Haarcascade for real-time face detection and a K-Nearest Neighbors (KNN) classifier for facial recognition with **Python**. Implemented automated attendance logging with CSV storage and integrated text-to-speech (TTS) for confirmation. Optimized recognition accuracy using feature extraction and data preprocessing techniques. Designed a user-friendly interface for seamless face enrollment, detection, and attendance tracking.

Technical Skills and Expertise

• **Java Programmer**   • **Python Programmer**   • **Web Developer**   • **PowerBI Analyst**   • **Data Analyst**

Education

Bachelor of Engineering (B.E-CSE)	2022-2026	**CGPA**	
PSNA College of Engineering and Technology		8.21/10	
Higher Secondary Education (ISC)	2020-2022	**Marks**	
Idhayam Rajendran School		427/500	
Secondary School Certification (ICSE)	2010-2020	**Marks**	
M.K.R.Ayya Nadar Jeyalakshmi Ammal School		503/600	

Competitions:
- **IEEE Extreme** Coding Challenge . Global Rank(773/8785).
- **IIT Sricity** Hackathon(Top 50).
- Code mantra at **Bannari Amman College** Event.
- **Leetcode** Weekly Contests.

https://github.com/Madhansingh23/Madhan-Professional-Details