

Vaibhav Dhumale

📍 Mumbai, MH | 📞 +91 9175204746 | ✉ vaibhavdhumale2003@gmail.com | 🌐 imvbh.pages.dev | 🐙 github.com/imvbh

EDUCATION

Gati Shakti Vishwavidyalaya, Vadodara <i>BTech in Electronics & Communication Engineering, specialisation in Railway Engineering</i>	CGPA: 7.79 2021- May 2025
Matrix Academy, CBSE School <i>Class XII, CBSE</i>	Percentage: 93.4% May 2021
John XXIII CBSE School <i>Class X, CBSE</i>	Percentage: 90.6% May 2019

PROFESSIONAL EXPERIENCE

Bangalore Metro Rail Cooperation Limited (BMRC Ltd.) <i>Summer Intern, Signalling and Telecommunication Department</i> <ul style="list-style-type: none">Engaged and studied metro operations and signaling, focusing on testing of CBTC systems for upcoming projects.Contributed to the design review process of Platform Screen Doors (PSD), gaining a comprehensive understanding of their integration and functionality.Visited a Metro Depot to learn about maintenance and control procedures.	Bangalore, KA May - June 2024
Research Designs & Standards Organisation (RDSO) <i>Summer Intern, PS & EMU Directorate</i> <ul style="list-style-type: none">Gained insights into RDSO's collaboration with Indian Railways in maintaining standards for railway systems.Participated in in-depth learning about the Train Control And Management Systems in the Power Supply & Electric Multiple Units directorate.Interacted with Executive Directors of 13 different directorates, understanding their roles in the standards development.	Lucknow, UP May - June 2023
Mumbai Rail Vikas Corporation Limited (MRVC Ltd.) <i>Summer Intern, General operations</i> <ul style="list-style-type: none">Attended training sessions and field visits about railway construction and project management processes.Developed a in-depth project titled 'Monitoring Infrastructure Health with the Optical Fibers'Understood MRVC's crucial role in ensuring the efficiency and safety of Mumbai's local railway.	Mumbai, MH July - August 2022
Freelancing roles <i>Freelancer, Various opportunities.</i> <ul style="list-style-type: none">Data Entry Operator Bintix Ltd.: Effectively used spreadsheets for data management and analysis.Video Editor & Graphics Designer Freelancer.com: Adobe Premiere, DaVinci, Illustrator.Assistant Web Developer Freelancer.com: Developed real-world applications using the MERN Stack.	Remote 2021-present

PROJECTS

Automated Wagon Fault Detection - [Link] <i>A system for predictive maintenance</i> <ul style="list-style-type: none">Developed a robust computer vision and machine learning model to detect wagon faults.Achieved a 93% accuracy in training a YOLO model on 1500+ labelled frames.Technologies: Computer Vision, Machine Learning, YOLO, LabelMe.	
MinNotes - [Link] <i>A feature packed note-taking app</i> <ul style="list-style-type: none">Integrated rich text editing, attaching image & voice notes and hidden notes functionality for enhanced user privacy.Utilized Isar database for efficient note storage and quick access, ensuring smooth performance.Technologies: Flutter, Isar Database (NoSQL), Dart	

More Projects on my Portfolio site - [\[Link\]](#)

SKILLS

Languages: English (Fluent), Hindi (Fluent), Marathi (Intermediate)
Programming Skills: Verilog, MATLAB, Python, Dart, MERN Stack (MongoDB, Express.js, React.js, Node.js), SQL
Libraries/Frameworks: Flutter, Tailwind-CSS, TensorFlow
Soft Skills: Analytical Thinking, Problem Solving, Project Management, Leadership, Proactive, Adaptive

ADDITIONAL INFORMATION

Certifications: MATLAB OnRamp (*Mathworks*), Responsive Web Design (*freeCodeCamp*), Deep Learning (NVIDIA), Railway Signalling Engineer Trainee (IRASET, Secunderabad)

Volunteer Experience: Volunteer Teacher at Happy Faces, Vadodara.

Interests: Cycling, Photography, Mindfulness, Reading, Coding, Volleyball

Notable Experiences:

- Founded a pre-seed startup, ReDeFyn, focused on sustainable fashion; pitched at Hult Prize and E-Summit (IITM).
- Student Representative of Media and PR Committee.
- Organised TechFest as a member of the Event Management Club.