

JAYANT BARANGE

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EDUCATION

Vellore Institute of Technology, Bhopal
Bachelor of Technology (B.Tech) — CGPA: 7.49

Sep 2021 – May 2025
Bhopal, India

Sharda Vidya Mandir, Bhopal
Senior Secondary (XII) — Percentage: 81.2%

2021

Sharda Vidya Mandir, Bhopal
Secondary (X) — Percentage: 82.4%

2019

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, SQL
- **Web Development:** HTML, CSS, MERN Stack
- **Tools & Platforms:** Git, GitHub, OracleSQL
- **Concepts:** OOPS, Data Structures, Algorithms, Software Testing, Debugging, Responsive Design, Version Control, Cloud Computing
- **Soft Skills:** Teamwork, Communication, Leadership

PROJECTS

WellnessWeb – Hospital Management System 🔗

Oct 2023 – May 2024

- Designed and deployed a hospital management system using the MERN stack, supporting 300+ monthly appointment transactions.
- Developed a MySQL backend to manage 100+ daily operations, ensuring secure authentication and efficient data handling.
- Improved appointment workflow efficiency by 40% through streamlined UI and backend logic.
- Built a user-focused interface for patient records, resulting in a 35% improvement in data retrieval speed and usability.
- Engineered form validation, role-based access, and scheduling features using JavaScript and React, reducing appointment errors by 30% and enhancing user experience for over 150 users.

License Plate Identification System 🔗

Nov 2022 – Jan 2023

- Developed a real-time license plate detection model using Haar Cascade and TensorFlow- trained CNNs.
- Achieved 87.3% detection accuracy on 500+ Indian license plates across varied conditions.
- Preprocessed video data using OpenCV to improve recognition speed and clarity.
- Created a modular pipeline for 500+ image inputs, automating preprocessing, segmentation, and prediction with 90% efficiency across real-time video streams.
- Applied debugging techniques to enhance recognition in low-light and high-motion environments.

CERTIFICATIONS

- AWS Certified Cloud Practitioner – Jan 2024
- Blockchain & Its Applications – NPTEL, Apr 2024
- MERN Stack Development – Ethnus, Nov 2023
- Programming in C++ – Anupa Computer Classes, Mar 2023
- The Bits and Bytes of Computer Networking – Coursera (Google), Jan 2023

ACHIEVEMENTS

- Solved 300+ problems on GeeksforGeeks with 100+ day streak; ranked top 5%.
- Won 1st place at School Science Exhibition for building an automated alert and attendance system using motion sensors.
- Volunteered as an event coordinator for the college cultural fest, managing logistics for 500+ attendees and coordinating with 20+ student performers.
- Collaborated with student wellness council to launch a peer support campaign, reaching over 200 students and promoting mental health awareness.

LEADERSHIP & ACTIVITIES

- Zonal Badminton Champion – 1st place (multiple years).
- Interschool Swimming – 3rd place.
- Member of Insights, Anime Club.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi
- **Interests:** Music, Gaming, Badminton