

RICHA SINGH

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EDUCATION

- **Sardar Vallabhbhai National Institute of Technology, Surat** Aug 2022 – May 2026
Bachelor of Technology in Electronics and Communication Engineering
- **Relevant Coursework:** Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems

EXPERIENCE

- **Innovate Intern** May 2025 - Jul 2025
Full Stack Web Development Intern Chennai, India
 - Developed responsive React.js frontend interfaces, reducing organizer task completion time by 35% and improving usability through intuitive navigation and workflows.
 - Implemented backend services and database design with Node.js and MongoDB, achieving 99% uptime during test deployments and reducing UI defects by 40% after beta testing.

TECHNICAL PROJECTS

- **Healthcare Management Portal**
Tech Stack: React.js · Next.js · Node.js · Express.js · PostgreSQL · MongoDB · Python (ML)
 - Led frontend development of a full-stack AI healthcare platform, building responsive and accessible user interfaces for patients and hospitals using React.js and Next.js.
 - Built dynamic dashboards handling 1,000+ data records per session for appointments, patient profiles, and hospital resources with optimized rendering and API integration.
 - Improved page load performance by 35% through component memoization, lazy loading, and optimized client-side routing in Next.js.
- **Face Recognition System – Python (Desktop GUI)**
Tech Stack: Python · OpenCV · Tkinter · PIL · MySQL · NumPy · MediaPipe (LBPH) · Haar Cascade Classifier
 - Developed a GUI-based Face Recognition System that captures, trains, and identifies user faces in real time with LBPH algorithm and Haar Cascade detection.
 - Engineered MySQL database integration, achieving real-time user data management and enhanced application performance by 25% through queries, benefiting the entire team across 3 key development projects.
- **Smart Product Pricing**
Tech Stack: Python · NLP · Computer Vision · LightGBM · Scikit-learn
 - Implemented a scalable multimodal ML pricing model leveraging NLP (TF-IDF, SVD) and CNN-based image embeddings (ResNet-18) to predict product prices accurately.
 - Designed and evaluated a production-style ML workflow using LightGBM regression with SMAPE-based optimization, demonstrating strong feature fusion and model selection skills.

SKILLS

Languages: C++, SQL, JavaScript, Python

Developer Tools: Git/GitHub, MATLAB, Cadence, Microsoft Excel, CST Studio Suite, LaTeX, LTspice

Frameworks/Libraries: HTML, CSS, React.js, Node.js

Soft-Skills: Problem analysis, Communication, Leadership, Teamwork, Management, Resilience

POSITION OF RESPONSIBILITY

- **Member, IEEE - SVNIT Student Chapter** July 2023 - 202
 - Conducted a workshop of 50+ students to enhance the technical culture among students.
- **Member, LAC - SVNIT Student Chapter** July 2023 - 2025
 - Helped conduct a book workshop that saw participation of 300+ students to create literary awareness.