Priyanshu Singh

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EDUCATION

Vellore Institute of Technology, Bhopal — Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.90/10 — Oct 2022 – Present

Kendriya Vidyalaya, RDSO — Lucknow, Uttar Pradesh
Class XII (CBSE), Percentage: 93.2% — Apr 2020 – May 2021

Kendriya Vidyalaya, RDSO — Lucknow, Uttar Pradesh
Class X (CBSE), Percentage: 94% — Apr 2018 – May 2019

TECHNICAL SKILLS

Languages: C++
Web Development: HTML, CSS, JavaScript, React
Database: MySQL, Firebase Firestore
Tools & Platforms: Git, GitHub, Excel, VS Code, IntelliJ IDEA , Agile Methodology
Professional Skills: Planning, Formal Communication, Team Collaboration

TECHNICAL PROJECTS

Full-Stack Chat App with WebSockets | *MERN, Socket.io, JWT, ShadCN* — Aug 2025 – Present
- Built a responsive single-page chat application with React + Tailwind, improving UI load speed by 40% , leading to a smoother user experience and reducing bounce rate.
- Engineered real-time messaging with Socket.io, solving the bottleneck refresh delays and enabling sub-second latency.
- Implemented security middleware using JWT to authenticate users and ensure data access integrity, protecting user conversations from unauthorized access.
- Optimized MongoDB queries, boosting data retrieval efficiency by 30%.

MediSinCare Platform | *Python, Firebase, Logistic Regression, HTML, CSS, JavaScript* — Aug 2024 – Apr 2025
- Built a healthcare web app predicting diseases from symptoms using a Logistic Regression model trained on 2,000+ patient records.
- Integrated Firebase Authentication and Firestore for secure login, user management, and feedback collection.
- Implemented multi-page navigation (About Us, Diet, Main) and personalized prevention recommendations, increasing engagement by 35%.
- Engineered a data preprocessing pipeline that improved data integrity and reliability, boosting prediction model accuracy by 20%.

Heart Failure Prediction | *Python, Scikit-learn* — Apr 2024 – Jun 2024
- Led a 5-member team to deliver a predictive healthcare solution with 89.75% accuracy, applying data-driven design and iterative testing to ensure reliable results.
- Preprocessed and analyzed 1,000+ patient records, enhancing model reliability by 30%.
- Evaluated models using precision, recall, F1-score, and ROC-AUC to measure predictive performance.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified Foundations Associate — *Oracle University* — Sep 2025
Cloud Computing — *IIT Kharagpur* — Apr 2024

EXTRACURRICULAR ACTIVITIES

National Semi-Finalist — Flipkart GRiD 2025 — Aug 2025
- Advanced to semi-finals among 1.5L+ participants nationwide, recognized for technical accuracy and creative solution design.

Deloitte Australia Technology Job Simulation — *Forage* — Aug 2025
- Completed technology consulting simulation involving development tasks and authored a dashboard creation proposal.

Executive Secretary — Fine Arts Club, VIT Bhopal — Jul 2024 – May 2025
- Organized 4+ cultural events (500+ attendees each), boosting participation by 25% and drove 40% social media growth through content creation.

Core Member — iOS Club, VIT Bhopal — Jul 2024 – Apr 2025
- Produced 10+ Swift tutorial videos achieving 25% higher viewer retention and 40% cumulative view growth through improved production standards.

Team Leader — National Science Congress, IIT Kanpur — Nov 2017
- Led 5-member team to secure runner-up among 20+ schools with "Junk Food Epidemic" project proving 68% diet-health correlation.