

# Vishvam Samirkumar Patel

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## EDUCATION

### Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.91/10

Madhya Pradesh

2022 – 2026 (Expected)

## TECHNICAL SKILLS

- **Programming Languages:** C++, JavaScript, Python
- **Web Technologies:** HTML, CSS, Tailwind CSS, React, Node.js
- **Databases:** MySQL, MongoDB
- **Tools & Others:** Git & GitHub, Docker, Postman

## WORK EXPERIENCE

### Jio Platforms Ltd.

Mumbai, India

Data Analyst Intern – Application of Machine Learning for Operational Analytics

Sep 2024 – Nov 2024

- Engineered five regression models (Linear, Ridge, Lasso, Random Forest, SVM) with feature engineering and selection, reducing model complexity by ~25% and improving predictive accuracy by 15%.
- Applied time series forecasting and hyperparameter tuning, minimizing overfitting by 20% and improving model generalization by 12%.
- Performed statistical analysis and systematic evaluation, increasing  $R^2$  scores by up to 18% and delivering more stable ML models.
- Refined feature set by eliminating high-VIF predictors, reducing multicollinearity by 40%+ and enhancing model stability.

## PROJECTS

### Fashion Forward | *React.js, Tailwind CSS, Node.js, MongoDB, Socket.IO* | [GitHub](#)

- Built a comprehensive full-stack e-commerce platform using React.js, Node.js, and MongoDB with complete user authentication, shopping cart, order management, and admin panel functionality.
- Integrated AI-powered customer support chatbot using Google Gemini AI with conversation history management and intelligent response generation for enhanced user experience.
- Implemented real-time admin dashboard with Socket.IO for live order notifications and integrated PayU payment gateway with secure transaction processing.

### MargWatch | *Express.js, Next.js, TypeScript, PostgreSQL, Redis, Docker, Python, Kotlin* | [GitHub](#)

- Collaborated in a 5-member team to develop a road-issue reporting system comprising a web-based admin portal, ML-powered issue detection service, and Android mobile app for public complaint submission.
- Delivered the complete web stack: designed REST APIs in Express.js/TypeScript backed by PostgreSQL and Redis, and built a Next.js admin portal for approvals, user management, analytics, and complaint triage with robust auth, validation, and error handling.
- Contributed to system architecture and deployment by containerizing backend services with Docker, enabling scalable multi-service communication and streamlined maintenance across all components.

### Voyage Vista | *HTML, CSS, JavaScript, React.js, Node.js, MongoDB* | [GitHub](#)

- Built a full-stack travel booking platform using the MERN stack with a responsive React frontend and secure Node.js backend featuring JWT-based user authentication and MongoDB for data management.
- Implemented a complete tour management system with RESTful APIs enabling CRUD operations, advanced search filters, booking functionality, and a community-driven review and rating system.
- Developed location-based search across multiple criteria (transport, accommodation, group size) along with real-time booking price calculations to enhance user experience.

## CERTIFICATIONS

- AWS Cloud Practitioner Essentials (Coursera)
- Oracle Cloud Infrastructure 2025 Foundations Associate (Oracle)
- Oracle Data Platform 2025 Foundations Associate (Oracle)

## ACADEMIC & EXTRACURRICULAR ACTIVITIES

- Practiced 100+ coding problems on LeetCode, developing proficiency in data structures, algorithms, and coding efficiency.