

Vishvam Samirkumar Patel

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Education

Vellore institute of Technology Bhopal, India

- CGPA: **8.92**

2022 - 2026

(expected)

KD Ambani Reliance Foundation School, India

2021 - 2022

- CBSE (*Class XII*), Aggregate: **77.8%**

KD Ambani Reliance Foundation School, India

2019 - 2020

- CBSE (*Class X*), Aggregate: **90.8%**

Skills

Programming & Frameworks: C++, Java, Python, JavaScript, Node.js, React

Databases: MongoDB, SQL

Web Development: HTML, CSS

Tools & Others: Git, Version Control Tools

Core Subjects: Operating System, Database Management System, Computer Networks, OOPs, Data Structures & Algorithms

Work Experience

Jio Platforms Limited

Data Analyst Intern [Application of Machine Learning for Operational Analytics]

(27.09.2024 - 29.11.2024)

- Developed and optimized five regression models (Linear, Ridge, Lasso, Random Forest, SVM), reducing prediction error and enhancing decision-making.
- Built a Random Forest-based feature selection framework, cutting model complexity and boosting performance.
- Performed VIF analysis to eliminate features with $VIF > 5$, improving model stability and reducing multicollinearity.
- Applied advanced time series forecasting and correlation analysis, increasing trend prediction accuracy.
- Conducted residual analysis to fine-tune parameters, reducing overfitting and improving generalization.
- Created and analysed correlation matrices to refine features, improving model accuracy.

Projects

Voyage Vista / (HTML, CSS, JavaScript, React, Node.js, MongoDB)

- Built and deployed a full-stack travel platform (HTML, CSS, JavaScript, React, Node.js, MongoDB) with responsive UI.
- Enhanced real-time API performance using JavaScript Promises and `async/await`.
- Implemented a location-based search and filter system, improving search efficiency.
- Integrated an AI chatbot, automating inquiries and boosting user engagement.
- Deployed a review and rating system, increasing user interaction.

Traffic Genie: Smart Traffic Management

- Created a web-based application that monitors traffic footage and presents insights through clear, interactive statistical dashboards.
- Trained a custom YOLOv8 with OpenCV model to detect and classify vehicles.
- Designed a user-friendly dashboard using Flask and Chart.js to display traffic stats like vehicle count, type distribution.

Certifications

- **Coursera:** - [AWS Cloud Practitioner Essentials](#)
- **Udemy:** - [Learn JAVA Programming – Beginner to Master](#)

Additional Information

- **Qualities:** - Project Management, Teamwork, Effective Communication
- **Languages:** - English (fluent), Hindi (fluent), Gujarati (Native)