

Vishvam Samirkumar Patel

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Education

Vellore institute of Technology Bhopal, India <ul style="list-style-type: none">CGPA: 8.82	2022 - 2026 (expected)
KD Ambani Reliance Foundation School, India <ul style="list-style-type: none">CBSE (Class XII), Aggregate: 77.8%	2021 - 2022
KD Ambani Reliance Foundation School, India <ul style="list-style-type: none">CBSE (Class X), Aggregate: 90.8%	2019 - 2020

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 by 20%** and enhancing decision-making.
- Built a Random Forest-based feature selection framework, cutting model complexity by **30%** 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 by **15%**.
- Conducted residual analysis to fine-tune parameters, reducing overfitting and improving generalization by **15%**.
- Created and analysed correlation matrices to refine features, improving model accuracy by **20%**.

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 by **40%** using JavaScript Promises and async/await.
- Implemented a location-based search and filter system, improving search efficiency by **30%**.
- Integrated an AI chatbot, automating **70%** of inquiries and boosting user engagement.
- Deployed a review and rating system, increasing user interaction by **40%**.

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](#)
[The Bits and Bytes of Computer Networking](#)
[Crash Course on Python](#)
- NPTEL Online Certifications:** - [Cloud Computing](#)
[Marketing Analytics](#)
- Udemy:** - [Learn JAVA Programming – Beginner to Master](#)

Additional Information

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