



# Hriday Ranawat

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## Education

### Veermata Jijabai Technological Institute (VJTI)

Second Year B.Tech in Information Technology, CPI: **7.77**

Aug. 2023 – Present

Mumbai, Maharashtra

### Prakash Junior College

HSC: **75%**, MHT-CET: **99.72%**ile, JEE: **95.63%**ile

Jun. 2021 – Mar. 2023

Mumbai, Maharashtra

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Database Management
- Operating Systems
- OOP

## Projects

### AI-Kaksha: Academic Assistant (*Python, FastAPI, Gemini API, NLP*)

Apr. 2025 – Jun. 2025

- Built a learning assistant that extracts and indexes video transcripts for semantic search.
- Implemented AI-driven Q&A and automated study guide generation with timestamped navigation.
- Designed backend with **FastAPI** for efficient query handling.

### MERN Chat App (*React.js, Node.js, Express.js, MongoDB, Socket.io*)

Oct. 2024 – Dec. 2024

- Developed a full-stack chat application enabling real-time messaging using **Socket.io**.
- Implemented **user authentication** with secure token-based login validation.
- Built features for **group chat creation**, user management, and live updates.
- Used **MongoDB** for efficient data storage.

### Credit Card Fraud Detection System (*Python, ML, Streamlit, FastAPI*)

Sep. 2025 – Oct. 2025

- Developed a machine learning system using **Logistic Regression, Random Forest, and XGBoost**, and saved the best-performing model automatically.
- Handled severe class imbalance using **SMOTE**, performed feature scaling, and optimized model hyperparameters.
- Achieved **99.4% accuracy**, **97% precision**, and **96% recall** on the fraud class using the optimized XGBoost model.
- Built an interactive **Streamlit application** to visualize predictions and fraud probability.
- Currently integrating a **FastAPI backend** to enable real-time fraud detection requests.

## Technical Skills

**Languages:** C++, Python, HTML/CSS, JavaScript

**Developer Tools:** VS Code, Git/GitHub

**Technologies/Frameworks:** ReactJS, NodeJS, ExpressJS, MongoDB, MySQL, Socket.io, Streamlit, FastAPI

## Positions of Responsibility

- **Sports Committee – Enthusia, VJTI** — Coordinated and executed inter-branch **football tournaments**, managing fixtures, teams, and logistics.
- **Cultural Committee – Pratibimb, VJTI** — Managed event execution, volunteer teams, and backstage operations for flagship cultural events.

## Achievements

- Achieved **2 rating** on CodeChef for competitive programming.
- Secured **Runner-up** position in IT VJTI Football Team.
- Former **Captain** of school hockey team, demonstrating leadership.