

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 (<i>Python, FastAPI, Gemini API, NLP</i>)	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 (<i>React.js, Node.js, Express.js, MongoDB, Socket.io</i>)	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 (<i>Python, ML, Streamlit, FastAPI</i>)	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.