

# RABI SHAIKH

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## EDUCATION

**Veermata Jijabai Technological Institute (VJTI)**

**Mumbai, India**

*Bachelor of Engineering in Information Technology*

*2022 – 2026*

**Sakcet College of Arts, Science & Commerce**

**Mumbai, India**

*Higher Secondary Education (12th Grade)*

*2020 – 2022*

## INTERNSHIP EXPERIENCE

**Sakura Biotech**

**Mumbai, India**

*Machine Learning Intern (Onsite)*

*Jun 2025 – Aug.2025*

- Developed and deployed a real-time algae monitoring system using an LSTM model trained on 1,400+ sinusoidal pH readings, achieving 92.4% accuracy (MAE: 0.12) for 30-step forecasting.
- Deployed the solution pipeline with Raspberry Pi EZO-pH sensor and data every 10s, triggering predictions via Flask.
- Integrated the solution on AWS with integrated anomaly detection and multi-sensor expansion capabilities.
- Designed automated live charts, real-time reports, and MIS reports using Chart.js and JavaScript, developing dynamic performance dashboards to enhance operational efficiency and Data-Driven decision making capabilities.

## TECHNICAL PROJECTS

**-Revenue Performance Insights Platform | HTML, CSS, JavaScript, Chart.js, Bootstrap**

**Jan 2025**

- Designed and developed a responsive web application using HTML, CSS, JavaScript, and Chart.js, enabling the input and visualization of financial data through interactive charts and performance metrics with Bootstrap-enhanced design.
- Executed advanced data analysis and strategic financial recommendations utilizing JavaScript, showcasing IT proficiency while delivering actionable insights for banking operations and risk management enhancements.
- Managed the project lifecycle independently, optimized UI/UX design for seamless navigation across 10 financial metrics, and enhanced functionality by integrating 500+ revenue data points, achieving a scalable financial analytics platform.

**-Customer Churn Prediction | Python, XGBoost, Streamlit**

**Mar 2025**

- Engineered a machine learning model using Python and XGBoost to predict customer churn retention, leveraging a comprehensive dataset of 10,000+ transaction records for precise churn analysis.
- Constructed an interactive Streamlit dashboard to visualize customer churn retention risks, implement retention strategies, and achieve 85% accuracy through advanced data visualization and predictive modeling.
- Independently managed the project lifecycle, fine-tuned the model by adjusting feature selection and hyperparameters, and incorporated dynamic analytics features, elevating the platform's capability in customer churn retention forecasting with enhanced predictive accuracy.

**-ML-based Credit Card Fraud Detection System | Python, SMOTE, Random Forest, Logistic Regression**

**May 2025**

- Designed a machine learning pipeline for fraud detection system behavior using a dataset of 28K+ card transactions.
- Applied random forest and logistic regression, achieving 93.5% precision and a 0.89 ROC-AUC score.
- Addressed class imbalance with SMOTE, assessed results via 5-fold Cross Validation, and visualized key metrics

## TECHNICAL SKILLS & TOOLS

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

**Frameworks & Tools:** TensorFlow, Streamlit, Chart.js, Bootstrap, Flask

**Platforms & Databases:** AWS, MongoDB, Git, Google CoLab, VS Code, Power BI, MS Office, Unix/Linux

**Relevant Coursework:** OOPs, DBMS, Data Structures, Software Engineering, Project Management

## POSITIONS OF RESPONSIBILITY

**E-Cell VJTI | CMO**

**Aug 2024 – Apr 2025**

- Spearheaded a team to boost participation in startup events and forge industry partnerships.
- Developed integrated strategies across online and offline channels, driving event growth and collaborations.

**Swach VJTI | Marketing Head**

**Aug 2024 – Apr 2025**

- Directed campaigns for Swach VJTI, leading a team to raise awareness and promote sustainability initiatives.
- Formulated strategic plans using digital platforms and partnerships for maximum impact.

**Alumni Association VJTI | Newsletter Head**

**Aug 2024 – Aug 2025**

- Led a team of 5 to plan, write, and distribute the alumni newsletter, engaging 2,000+ alumni.
- Coordinated editorial schedules effectively.