

# Rao Mitesh

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📍 Ahmedabad, Gujarat, India

## PROFESSIONAL SUMMARY

Top-performing Data Science student at JG University with consistent academic excellence (CGPA: 8.75). Demonstrated ability to build full-stack applications and develop AI/ML models. Proficient in web development technologies and machine learning frameworks with hands-on experience in real-time systems and predictive analytics. Ranked 1st in stream for two consecutive semesters, showcasing strong analytical and problem-solving capabilities.

## EDUCATION

### JG University

*Bachelor of Science (IT) - Data Science — CGPA: 8.75/10.0*

Ahmedabad, Gujarat, India

*July 2024 – April 2027*

- Semester 1: 8.6 CGPA — Semester 2: 8.9 CGPA
- Rank 1 in Data Science stream for both Semester 1 and Semester 2
- Relevant Coursework: Data Structures & Algorithms, Database Management, Web Development, AI/ML

### Tripada High School

*High School Diploma*

India

*June 2022 – May 2024*

## EXPERIENCE

### Machine Learning Intern (Virtual)

Aug 2025 – Sept 2025

*CS Vision*

*Remote*

- Developed Profit Paradox, a sales and profit prediction system using machine learning on Sample Superstore dataset
- Built and compared multiple ML models (Linear Regression, Ridge, Random Forest, XGBoost) achieving  $R^2 \geq 0.85$
- Performed comprehensive data cleaning, preprocessing, and exploratory data analysis on retail sales data
- Implemented customer segmentation using clustering techniques to identify target demographics
- Created interactive Streamlit application for real-time predictions and data visualizations
- Delivered actionable insights on discount optimization, product categories, and customer targeting strategies

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, Java, C++, C, SQL, PHP

**Web Development:** React.js, HTML, CSS, Responsive Web Design, WebSocket (Ratchet), Streamlit

**Data Science & ML:** Machine Learning, Predictive Modeling, XGBoost, Random Forest, Scikit-learn, Clustering

**Database Technologies:** SQL (Intermediate), Database Design and Management

**Productivity Tools:** MS Office Suite (Word, Excel, PowerPoint), macOS Pages, Numbers

**Tools & Technologies:** Git, Jupyter Notebook, VS Code, Cursor, AI Tools Integration

**Soft Skills:** Public Speaking, Leadership, Problem Solving, Team Collaboration, Quick Learner

## PROJECTS

### Talksy - Real-Time Chat Application | *React, PHP, WebSocket (Ratchet)*

Semester 3

- Developed a full-stack real-time chat application enabling instant messaging between multiple users
- Implemented WebSocket protocol using Ratchet for bidirectional communication and low-latency message delivery
- Built responsive frontend interface with React.js for seamless user experience across devices
- Designed and integrated PHP backend with database management for user authentication and message persistence
- Managed real-time connection handling and message broadcasting to multiple concurrent users

### ThunderCast - Weather Prediction AI Model | *Python, Machine Learning*

Sept 2025

- Developed AI-powered prediction model for thunderstorms and gale force wind speeds at LJ University AI Hackathon
- Implemented machine learning algorithms to analyze meteorological data and predict severe weather patterns
- Trained model on historical weather datasets to achieve accurate predictions for early warning systems
- Collaborated with team members to preprocess data, engineer features, and optimize model performance
- Presented solution to judges demonstrating practical application in disaster preparedness and public safety

ACHIEVEMENTS & CERTIFICATIONS

Responsive Web Design Certification   freeCodeCamp	2025
Academic Excellence - Rank 1   Data Science Stream, JG University	Semester 1 & 2
AI Hackathon Participant   LJ University	Sept 2025

EXTRACURRICULAR ACTIVITIES

Public Speaking   Active Participant in Technical Presentations	2024 – Present
Hackathon Participant   AI Hackathon at LJ University	Sept 2025
Technology Enthusiast   Exploring AI Tools and Modern Development Practices	Ongoing