

# PREM TRIVEDI

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🐙 GitHub

🌐 LinkedIn

## Profile

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Result-driven Computer Science student with a keen interest in data science, data analysis, and machine learning. Skilled in Python, statistical analysis, data visualization, and building predictive models. Eager to apply analytical and problem-solving skills to real-world data challenges and contribute to meaningful, data-driven solutions.

## Education

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2022 – 2026      **B.Tech COPMUTER SCIENCE AND ENGINEERING**  
*Charotar University of Science & Technology*  
CGPA: 8.28/10 (7th semester)

## Skills

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### Programming Languages

Python, SQL, Java, C/C++, HTML, CSS, JavaScript

### Databases & Cloud Services

MySQL, PostgreSQL, MongoDB, Firebase

### Libraries

NumPy, Pandas, Scikit-learn, TensorFlow/PyTorch, Matplotlib, Seaborn, Streamlit

### Tools & Platforms

Git, GitHub, Google Colab, VS Code, Jupyter, PowerBI

## Professional Experience

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05/2025 – 06/2025      **DATA SCIENCE INTERN**  
*Brainybeam Info-Tech PVT LTD*

- Gained hands-on experience in data science and machine learning through real-world tasks.
- Performed data preprocessing, visualization, and built ML models using Python.
- Analyzed datasets to extract insights for informed decision-making.
- Demonstrated strong analytical skills, attention to detail, and a proactive approach.
- Earned appreciation for dedication, sincerity, and consistent performance.

05/2024 – 06/2024      **DATA SCIENCE INTERN**  
*Tech Elecon Pvt. Ltd.*

- Built machine learning models for customer churn prediction with strong performance (F1-score up to **0.78**).
- Cleaned, preprocessed, and analyzed large customer datasets.
- Performed EDA to identify key churn factors and business insights.
- Evaluated models using accuracy, precision, recall, and F1-score.
- Collaborated on a full end-to-end data science project with clear documentation.

## Projects

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05/2025 – 11/2025      **COURSE MANAGEMENT SYSTEM [GROUP PROJECT]**

- Built a full-stack, role-based Course Management System using React, TypeScript, Firebase, and TailwindCSS.
- Implemented secure faculty verification with admin-controlled onboarding.
- Developed real-time dashboards for Admin, Faculty, and Students.
- Used Firebase Auth, Firestore, and Cloud Functions for scalable, secure data handling.
- Streamlined institutional workflows by centralizing academic operations.

12/2024 – 04/2025

**SIGN LANGUAGE DETECTION MODEL [GROUP PROJECT]**

- Built a real-time sign language alphabet detection web app using React.js, Node.js, TensorFlow.js, and Mediapipe.
- Achieved 85–90% accuracy with fast (100–150ms) webcam-based predictions.
- Designed a responsive, user-friendly interface for cross-platform use.
- Implemented and optimized ML models for efficient in-browser gesture recognition.
- Improved accuracy by handling lighting variations through preprocessing and model refinement.

06/2024 – 11/2024

**AI ASSISTANT APP [GROUP PROJECT]**

- Built an AI-powered app using Flutter.
- Integrated ChatGPT API for chatbot interactions.
- Used DALL-E API for AI image generation.
- Implemented real-time language translation.
- Optimized performance with efficient API integration.

12/2023 – 04/2024

**RECIPE SUGGESTION WEBSITE [GROUP PROJECT]**

- Created a user-friendly recipe generator website using HTML, CSS, and JavaScript.
- Integrated APIs to fetch and display recipes based on user preferences, showcasing strong problem-solving and creative implementation.

**Publications**

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2025

**Transforming Plant Disease Classification through AI and Methodological Integration**

*Springer, Singapore*

- Conducted a literature review on plant disease detection using ML, DL, and spectroscopy techniques, highlighting their strengths, limitations, and applicability.
- Identified challenges such as high computational cost, overfitting, and limited performance on subtle visual symptoms, emphasizing the need for more robust and scalable detection methods.

2024

**From Campus Life to Career Prospects: Analyzing Key Determinants in Student University Selection**

*Springer, Singapore*

- Analyzed key factors influencing students' college choices using survey data from 496 participants, identifying academic reputation, career services, and financial considerations as top determinants.
- Highlighted the combined impact of academic, practical, and social factors—such as campus facilities and environment—on higher education decision-making.

**Certificates**

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- Database Management [NPTEL] 
- Fundamentals of Red Hat Enterprise Linux 9 
- JAVA 
- WEB DEVELOPMENT 

**Extracurricular and Achievements**

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2025

**Odoo Hackathon finalist**

*Finalist out of 14,000 teams*

2024

**Student Coordinator**

*Tech Talks, CHARUSAT*