

PREM TRIVEDI

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 GitHub

 LinkedIn

Profile

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

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

Skills

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

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

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 DALLE 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

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

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

Extracurricular and Achievements

2025

Odoo Hackathon finalist

Finalist out of 14,000 teams

2024

Student Coordinator

Tech Talks, CHARUSAT