

# Parthrajsinh Zala

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## Education

### Pandit Deendayal Energy University

Bachelor of Technology in Computer Science and Engineering

Gandhinagar, India

July 2023 – June 2027

CGPA: 9.20/10.0

**Relevant Coursework:** Machine Learning, Data Structures Algorithms, Probability Statistics, Exploratory Data Analysis, Linear Algebra, Database Systems

## Experience

### Data Science & Analyst Intern

July 2025 – August 2025

Opportive

- Engineered a range of machine learning solutions to extract insights from text, from developing an SVM sentiment classifier and extractive summarizer to building a sophisticated BERT-based question-answering system.

### Civic & Social Service Internship (CSSI)

June-2024

Ashirvad Viklang Trust

Surendranagar, India

- Mentored students with diverse special needs over a 6-week term by developing accessible learning materials and adapting communication methods.

## Publications

- Hybrid Tree-Based Machine Learning Ensemble for Multidomain Burnout Prediction. Manuscript under review, 2025.

## Technical Skills

- Languages:** Python, C++, C, Java, JavaScript, SQL, HTML/CSS
- ML/Analysis:** NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, exploratory data analysis
- Backend/Automation:** Flask, REST APIs, Selenium WebDriver, Web Scraping
- Databases:** MySQL (schema design, stored procedures), MongoDB, PostgreSQL
- Tools:** Git, GitHub, Jupyter/Colab, LaTeX, Figma, Docker (basic)

## Projects

### Surplus Saver: AI-Powered Food Waste Reduction Platform

2024

(React, TypeScript, Vite, Tailwind, Flask)

- Developed a marketplace for near-expiry "surprise bags" to reduce retail food waste and increase affordability.
- Integrated retailer inventory panels, discount logic, and gamified user engagement flows.

### Breast Cancer Analysis (Python, ML, EDA)

2024

- Performed exploratory data analysis and classification modeling on the Wisconsin Breast Cancer dataset.
- Compared SVM, Logistic Regression, and Random Forest models using cross-validation and evaluation metrics.

### Automating Job Applications on LinkedIn (Python, Selenium, Flask)

2024

- Automated repetitive LinkedIn job application workflows by programmatically filling and submitting forms.
- Reduced manual search and application time through configurable filtering and browser automation.

### Sentiment Analysis on Movie Reviews (Python, NLP, ML)

2023

- Implemented sentiment classification pipeline on IMDB review data using TF-IDF + Logistic Regression.
- Evaluated results using accuracy, confusion matrix, and F1 score.

## Positions of Responsibility

### General-Secretary, ACM-PDEU Student Chapter

July 2025 - June 2026

- Overseeing operations, coordination, and execution of technical and non-technical initiatives.

### Graphic Design Leader, ACM-PDEU Student Chapter

July 2024 - June 2025

- Led a team in designing digital assets for technical events, hackathons, and club branding.

## Achievements

- Hackathons:** Top 10 at Fintech Hackathon, Walmart Sparkathon 2025; Top 50 at Odoo Hackathon, Smart India Hackathon (SIH) 2024.

- Athletics:** 2-time District Champion & 1-time State Champion in Volleyball.