

Parthrajsinh Zala

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Education

Pandit Deendayal Energy University Gandhinagar, India
Bachelor of Technology in Computer Science and Engineering 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.