KAVAN TRIVEDI

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PROFILE

Motivated and curious undergraduate with a strong interest in data science, analytics, and machine learning. Skilled in Python, SQL, and data visualization, with hands-on experience through academic projects and hackathons. Eager to apply data-driven thinking to solve real-world problems and contribute to impactful solutions. Quick learner, team player, and passionate about continuous growth in the field of data and AI.

EDUCATION

Bachelor of Technology in Computer Science and Engineering,
Pandit Deendayal Energy University   Expected 2027
CPI: 9.19 (Till 3rd Semester)

PROJECTS

Attendease – Full-Stack Attendance & IA Management System   2024

Designed a web platform to manage attendance and internal assessments with role-based access for Admins (manage users and subjects), Teachers (mark attendance, upload/view tests), and Students (view records and attempt tests).

Integrated anti-cheating features like tab-switch detection and timer-based MCQ tests. Supported attendance via checkboxes or roll numbers with CSV export.

Enhanced academic workflows through a responsive UI, real-time backend validation, and simplified admin control dashboards.
Tech Stack: Flask, SQLite, HTML, CSS, JavaScript, Jinja Templates

Emergency Medical Portal – 2nd Place, ACM Hackathon @ PDEU   2024

Developed a secure healthcare portal for emergency access to patient data via Aadhaar-based authentication.

Ensured only authorized doctors/admins can access encrypted health records (vitals, reports, credentials).

Added QR-code based access linked to Aadhaar to retrieve emergency info from scannable wallpapers.

Ranked 2nd among 20+ teams for innovation, data privacy, and real-time decision-making support.

Tech Stack: PostgreSQL, TypeScript, JavaScript, HTML, CSS

Natural Language SQL Query Tool – GUI for Non-SQL Users   2023

Created a desktop app that converts plain English queries into SQL using regex.

Designed for users with no SQL background, outputs results using 'tabulate' in a GUI made with Tkinter.

Tech Stack: Python (Tkinter, regex, tabulate), MySQL

ID-Password Management System   2022

CLI tool to create, store, and validate user credentials using Python dictionaries and file I/O.

Practiced input validation, error handling, and secure credential checks for basic login flows.

Tech Stack: Python

ACHIEVEMENTS

- **2nd Place – ACM Hackathon, PDEU (2024)**
  Built the Emergency Medical Portal for secure emergency access to health records via Aadhaar authentication. Among top winners out of 100+ participants.

CO-CURRICULAR EXPERIENCE

- **Science and Technical Committee, PDEU – Sub-Committee Member**
  Collaborated with core members to manage and coordinate all tech club activities and internal operations across campus. Contributed to flagship events like **Tesseract** (tech fest) and EDM Night. Position offered exclusively to select second-year students.

- **edX – CS50's Introduction to Programming with Python by Harvard University (2022)**
  Completed foundational training in Python programming covering functions, loops, file handling, and exception management.

- **Hackathon Enthusiast – 2 Events**
  Built solutions in healthcare, automation at MINeD Hackathon and ACM Hackathon.

- **Civic & Social Services Internship (CSSI) – Volunteer**
  Supported physically challenged children at Mookh Badhir Vidyalaya, Gandhinagar, through inclusive tech-driven activities and care programs. Volunteered under the **Zoriya Foundation**.

COURSES

- **Harvard CS50's Introduction to Programming with Python (2022)** - Learned core programming concepts including functions, loops, conditionals, and exceptions using Python.