TARAL PATEL

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PROJECTS

Project-1: Book Collection System   05/2025 – 08/2025

Built a full-stack book collection management system using HTML, CSS, Bootstrap, Node.js, Express.js, and MongoDB   Implemented CRUD operations for adding, editing, viewing, and deleting book records   Integrated JWT-based authentication for secure login and role-based access control   Designed responsive UI components using Bootstrap cards   Developed RESTful APIs and managed user sessions securely

Project-2: Jarvis Voice Assistant   07/2024 - 08/2024

Description: This project integrates several core functionalities including voice recognition, speech synthesis, and web automation.It utilizes the SpeechRecognition library to detect and interpret user commands through natural language.Employed the webbrowser module to open popular websites like Google and YouTube based on user commands.Interfaced with a custom music library to play specific tracks from YouTube upon request and implemented pyttsx3 for interactive voice responses, allowing the assistant to provide feedback and execute commands effectively.This project demonstrates proficiency in integrating various Python libraries to create a responsive and interactive voice assistant, showcasing skills in software development, automation, and user interaction design.

Project-3: Shipment Database   05/2025 - 07/2025

Description: During my internship, I developed a Shipping Database Webpage using HTML, CSS, and Vanilla JavaScript to efficiently manage shipment records. The application featured basic CRUD operations that allowed users to add, view, update, and delete shipment details. I also implemented sorting and filtering functionalities to make data navigation and retrieval more efficient and user-friendly. This project enhanced my understanding of front-end development, DOM manipulation, and data handling using pure JavaScript without external frameworks.

RESEARCH EXPERIENCE

UnderGraduate Research Project - Pandit Deendayal Energy University   09/2025-11/2025

- Trained and evaluated machine learning models (Random Forest, LightGBM, CatBoost, ANN) to predict road accident risk and severity
- Performed data preprocessing, feature engineering, and model evaluation on real-world accident datasets
- Compared multiple models using performance metrics to identify the most reliable prediction approach
- Paper under review at FTNCT'08 Conference

EDUCATION

Pandit Deendayal Energy University   Gandhinagar, Gujarat

Bachelor of Technology, Computer Science and Engineering   09/2022 - 05/2026

CGPA:8.52

EXPERIENCE

Toshal Infotech Pvt. Ltd.   Surat, Gujarat

Node.js Internship   05/2025 - 07/2025

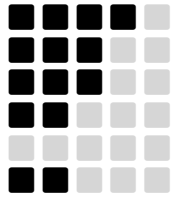## Technical Skills

Programming Language: C, C++, Python, Java
Web Technologies: HTML, CSS, JavaScript, Node
Processes:Data Structures, Object Oriented Programming, Worked on Linux bash script
Databases: MySQL, MongoDB
Containers: Docker
Others: MS excel, PowerBI, Postman

Licenses and Certificates

- University of Michigan-Python for Everybody
- CSSI rural internship by Prayas Free Coaching under guidance of M/s. Beena Rao.
- WebDevelopment Bootcamp by Devtown -Both FrontEnd and Backend
- Stanford University- Supervised Machine Learning