Prem RAICHURA

Profile Summary

I am a Full-Stack and AI Developer with a strong focus on building intelligent, scalable, and user-centric solutions. I enjoy transforming complex ideas into clean, functional systems — from robust backend architectures to intuitive frontend interfaces. My experience spans across AI/ML-driven applications, deep learning research, and web development using technologies such as FastAPI, React, Vite, PHP, Django, and MySQL.

Contact details

- ☎ +91 9327681649
- ✉ premraichura7@gmail.com
- Github
- Linkedin
- Portfolio ↗

Skills

- Php, Laravel, Python, Django, Flask, RESTful APIs, SQL, C, C++, Java
- TensorFlow, PyTorch, Pandas, NumPy, OpenCV, Keras
- Git, GitHub, Docker
- React.js, Bootstrap, Tailwind CSS
- MySQL, Firebase
- Communication and team collaboration

Coursework

- *Core Concepts:* Data Structures and Algorithms, Operating Systems, OOP, DBMS, Computer Networks

Experience

Round Trip Ride   10 OCT 2022 – 3 NOV 2022

> *Role:* Backend Developer

◇ Built and optimized a responsive vehicle rental platform with real-time availability, booking, and review features.
◇ Developed backend logic and APIs using Core PHP, ensuring secure data handling and seamless frontend integration with HTML, CSS, Bootstrap, and JavaScript.

Publication

TrafficEye: Intelligent Traffic Optimization Using Deep Learning Approach ↗

> *Published in IEEE International Conference on Artificial Intelligence and Machine Vision (AIMV 2025)*

◇ Built and evaluated an AI-driven traffic optimization system using YOLOv5s on the IITM-HeTra dataset for real-time vehicle detection and analysis.
◇ Achieved 71 % detection accuracy with 1.4 ms inference time, surpassing YOLOv4, YOLOv7, and YOLOv8 models in performance.
◇ Optimized the deep learning pipeline for adaptive signal control and intelligent traffic management.
◇ Contributed to model development, experimentation, and results validation, leading to successful publication in IEEE AIMV 2025.

Projects

Traffic density & detection web app   ⌂ ↗

> *React + vite, FastAPI, YOLOv5s, AI/ML*

◇ Developed a real-time traffic monitoring web app using FastAPI, React + vite, and YOLOv5s trained on the IITM-HeTra dataset.
◇ Achieved 71 % accuracy and 1.4 ms inference through an AI/ML-optimized pipeline for real-time traffic analysis.

WealthEquity   ↗

> *React + vite, Tailwind CSS, Email.js*

◇ Developed the official WealthEquity website using React, Vite, and Tailwind CSS with a responsive, animated UI for an engaging user experience.
◇ Integrated Email.js for automated inquiries, boosting engagement and contributing to a 5+ client increase through improved digital presence.

Bolton Real Estate   ↗

> *Php, MySQL, PhPMailler*

◇ Developed and managed a fully responsive real estate website with an integrated admin panel for property management using Core PHP and MySQL.
◇ Implemented secure backend logic, dynamic property listings, and contact functionality to enhance usability and streamline client-side operations.

Education

Bachelor of Engineering in Computer Engineering *from L.D.R.P. Institute of Technology and Research.*   **2024–2027**

Diploma in Computer Engineering. *from Government Polytechnic Porbandar.* - CGPA: 7.09   **2020–2023**

Certifications

◇ *NPTEL* - Python For Data Science.
◇ Basic & Advance Python.