

# 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, PHP, Python, and MySQL.

## CONTACT DETAILS

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- [Github](#)
- [Linkedin](#)
- [Portfolio](#)

## SKILLS

- Backend:** Php, Laravel, Python, Django, Flask, RESTful APIs, Java, SQL, C, C++
- Frontend:** React.js, Bootstrap, Tailwind CSS, JavaScript, HTML/CSS
- ML/DL Frameworks:** TensorFlow, PyTorch, Pandas, NumPy, OpenCV, Keras
- Version Control:** Git, GitHub, Docker
- Database:** MySQL, Firebase
- Others:** Postman, Vscode

## 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.