

# Pradip Chotara

+91-9712315547 | pradipchotara1999@gmail.com | [linkedin.com/in/pradip-chotara](https://www.linkedin.com/in/pradip-chotara) | [github.com/PradipChotara](https://github.com/PradipChotara)

## EDUCATION

### Maulana Azad National Institute of Technology (MANIT)

Bhopal

*M.Tech in Artificial Intelligence, 8/10*

*Aug 2024 – May 2026 (Expected)*

- Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Statistics.

### Gujarat Technological University

Rajkot

*B.Tech in Computer Engineering, 7.79/10*

*July 2017 – May 2021*

- Relevant Coursework: Operating Systems, DBMS, Computer Networks, Data Structures & Algorithms.

## EXPERIENCE

### Trainee Developer - DevOps

March 2023 – July 2024

*Aeonx Technologies Pvt Ltd*

- Worked on multiple projects, gaining hands-on experience in modern development and DevOps practices.
- Built and maintained backend systems using NodeJS and PHP.
- Designed and managed MySQL databases and Dockerized applications for smoother deployment.
- Gained exposure to AWS cloud services for deployment and scalability.


## PROJECTS

### Xpense - Reimbursement Management Tool

[xpense.aeonx.digital](#)


- Developed a tool at Aeonx Technologies Pvt Ltd to manage employee reimbursement workflows within organizations.
- Enabled employees to upload business trip expenses for managerial approval or rejection.
- Automated and streamlined communication with the Accounts Department.

### RAG System: Interactive Semantic Search Using ChromaDB & LangChain

 [link](#)

- Built an RAG system with LangChain and ChromaDB for fast semantic search across diverse documents.
- Containerized backend and frontend using Docker for easy deployment.
- Deployed on GCP VM with persistent storage and secure firewall settings.
- Enabled real-time document ingestion and conversational querying via a Streamlit UI.

### Fine-Tuned YOLOv8 for Sign Recognition

 [link](#)

- Developed and deployed a real-time digit recognition application using a fine-tuned YOLOv8n model.
- Automated labeling by detecting hands in dataset images using MediaPipe.
- Deployment on GCP using VMs and persistent storage for reliable, high-availability service.

### Real-time Wearable Plantar Pressure Monitoring System (Patent Application Filed, India)

- Developed a full-stack monitoring system using an ESP32 and FSR sensors to stream real-time plantar pressure data to a live visualization dashboard.
- Pioneered a minimalist, biomechanically-correlated sensor placement strategy to accurately reconstruct dynamic pressure profiles from sparse data.

## SKILLS

- **Frameworks:** Langchain, PyTorch, TensorFlow, Scikit-learn, Node
- **Soft Skills:** Collaboration, Problem Solving, Adaptability
- **Languages:** Python, C/C++
- **DevOps:** AWS, GCP, Docker
- **Databases:** MySQL, MongoDB
- **Version Control:** Git

## PUBLICATIONS

*A Low-Cost Wearable Insole System Using FSR for Real-Time Gait Analysis, RSCM 2025*

## ACHIEVEMENTS & CERTIFICATIONS

- Cyber Security: Application of AI (Coursera), Sep 2025
- Qualified GATE CS 2024 with a score of 533, competing against over 123,000 candidates.