# MAYUR **ASODARA**

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Ahmedabad, India

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Portfolio

Seeking a role in an innovative organization that values analytical thinking, where I can apply my programming, theoretical, and statistical skills. Enthusiastic about Machine Learning, dedicated to continuous learning, and eager to contribute to the organization's success.

## EDUCATION

### B.E in Electronics & Communication
Vishwakarma Government Engineering College
08/2020 - Present
**7.00 CGPA**

### HSC - GSEB
Axay Highschool
06/2019 – 05/2020
**69% *Percent***

## SKILLS

- Programming Langauge: Python
- Web Development: HTML, CSS, Flask
- Database: Mysql
- Data Manupulation: Pandas, Numpy
- Machine Learning: Scikit-learn, OpenCV, TensorFlow, PyTorch
- Model Deployment: Streamlit, Gradio, Heroku
- Academics: Digital Signal Processing, Image Processing, Video Processing, IOT
- Soft skills: Analytical Thinking, Problem-Solving, Teamwork
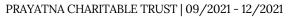
## CERTIFICATIONS

- Crash Course on Python - Coursera
- Responsive Web Design - freeCodeCamp
- Data Analysis with Python - freeCodeCamp

## HACKATHONS

- Passionate hackathon participant, adept at rapid problem-solving and collaborating in diverse teams. Committed to innovation, creative thinking, and delivering impactful solutions under pressure,
- till now I attended 7 offline & 3 online hackathons
  - **HackSVIT**
  - **Hackout'22**
  - **HackThisFall 3.0**
  - **HackVengers**

  and few more...

## PROFESSIONAL EXPERIENCE

### Python Developer Trainee
PRAYATNA CHARITABLE TRUST | 09/2021 - 12/2021

- Conducted interactive sessions to teach Python and Machine Learning fundamentals to students from 9th to 12th standard as part of the "Building Digital Readiness at Dahod and Narmada" Program.
- Mentored and supported students in designing and implementing AI-ML projects, providing guidance on data collection, preprocessing, model development, and evaluation.

## PROJECTS

### Annotation Tool Using SAM
**Python | SAM | Segmentation | OpenCV**
- Developed a **Python** UI based on labelme and segment-anything for pixel-level annotation, supporting multiple masks generation, efficient polygon modification, and category recording.
- **SAM** streamlines annotation with smart recommendations, enabling users to effortlessly create precise polygon **annotation**s by clicking on objects of interest, eliminating the need for manual point-by-point annotation.

### US Accidents Analysis
**Python | Data Manipulation | Data Visualization | EDA**

- This project focuses on analyzing and **visualizing the US road accidents** dataset to gain insights into various aspects of accidents, such as their frequency, severity, time distribution, and geographic distribution.
- **7 million** data points, more than 1**3500 cities & 49 states** coverd in this Analysis

### Underwater Trash Detetction
**Computer Vision | Segmentation | Object Detection | Data Annotation | YOLO**

- developed an underwater trash plastic detection project using **YOLOv5 and YOLOv8** by training custom datasets. This project includes two models: one based on YOLOv5 for object detection and another using YOLOv8 for instance segmentation. various underwater trash classes, including "**trash_metal**," "**trash_plastic**," "**trash_paper**," etc.
- Custom data set prepared using Roboflow tool and model training of 2 diffrent models YOLOv5 and YOLOv8s, in result we get **55%, 60.3% mAP** respectively.