Aayush Patel

AI – ML | PYTHON

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SUMMARY

I am a goal-oriented person. I believe in team spirit and commitment to work. If I get an opportunity to work, I can use my ability to contribute to the development of the organization.

EXPERIENCE

AI/ML Intern | InternPe **July 2024**

- Implemented basic ML algorithms using Python.
- Conducted data preprocessing and model training.
- Developed simple prediction models using supervised learning techniques.

Data Science Intern | Tecblic Pvt Ltd **Oct 2024 – Apr 2025**

- Worked on a computer vision project involving real-time object detection.
- Applied YOLO-based models for training and testing datasets.
- Developed automated UI testing workflows using Selenium, BDD Cucumber, and Python to ensure front-end functionality.
- Assisted in dataset preparation for machine learning tasks, enhancing the quality and usability of training data.

EDUCATION

M.Sc. IT (Artificial Intelligence and Machine Learning) **2023 – 2025**

Ganpat University

Bachelor of Commerce (Advanced Accounting) **2020 – 2023**

Shree Sahajanand Vanijya Mahavidyalaya

SKILLS

- Programming Languages: Python, HTML, CSS
- Libraries: Pandas, NumPy
- Machine Learning: Supervised Learning
- Computer Vision: YOLOv8, Roboflow, OpenCV
- Tools: GitHub, Streamlit, Microsoft Excel
- Databases: MySQL
- Data Visualization: Seaborn, Matplotlib

PROJECTS

Helmet Detection Using YOLO

[GitHub Repo](https://github.com/aayushpatel0203/Helmet-Detection-Using-Yolo)

- Technologies: Python, OpenCV, YOLOv8, Cvzone, Ultralytics
- Built a helmet detection system using YOLOv8.
- Used Python, OpenCV, and Cvzone for video processing.
- Trained custom dataset using Roboflow and Ultralytics.

Waste Detection and Classification using YOLO

[GitHub Repo](https://github.com/aayushpatel0203/Waste-Detection-and-Classification)

- Technologies: Python, OpenCV, YOLOv8, Cvzone, Ultralytics
- Built a system using YOLOv8 to detect and classify **17 types of household waste** like plastic bottles, fruit peels, and mobile phones.
- Used Roboflow's Polygon Tool for precise dataset annotation with fine-grained labels for better model training.
- Trained **Household Trash Dataset** using Roboflow and Ultralytics.
- Matched each detected item (like "plastic bottle" or "fruit peel") with a pre-defined Python dictionary to know if it's Recyclable (Dry/E-Waste) or Non-Recyclable (Wet Waste) using python logic.
- Displayed the results clearly in a side panel using OpenCV, showing what type of waste was found and how many—making it easy to understand and use.

Car Price Predictor

[Live Demo](https://car-price-prediction-sfaqc2zcmrnirhvfdkhwr9.streamlit.app)

- Developed a machine learning model to predict car prices based on historical and categorical data.
- Performed data cleaning, preprocessing, and feature engineering to improve model accuracy.
- Tools used: Python, Pandas, Sklearn, Streamlit.

CERTIFICATIONS

- Git, GitHub & Markdown (Udemy)
- Microsoft AI Skills Challenge
- Tata Group – Data Visualization: Empowering Business with Effective Insights
- Data Analyst Skillpath: Excel, SQL & ML with Python (Udemy)

LANGUAGES

- English
- Hindi
- Gujarati