

# OM BHAVSAR

AI/Machine Learning Engineer

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## PROFILE SUMMARY

B.Tech CSE (AIML) student with practical experience building and deploying ML and GenAI applications from a live AI shopping assistant to a real-time civic infrastructure detector. Proficient in Python, scikit-learn, OpenCV, and GenAI APIs. Passionate about developing intelligent systems that solve real-world problems at scale.

## TECHNICAL SKILLS

<b>ML / AI:</b>	scikit-learn, Classification, Regression, Predictive Modeling, Feature Engineering.
<b>GenAI:</b>	Generative AI APIs, Prompt Engineering, LLM Integration.
<b>Computer Vision:</b>	OpenCV, Image Recognition, Anomaly Detection.
<b>Languages:</b>	Python, Java, SQL, JavaScript, TypeScript.
<b>Frameworks:</b>	Streamlit, React, Next.js, Node.js, Tailwind CSS.
<b>Tools:</b>	Git, GitHub, Vercel, Jupyter Notebook.

## WORK EXPERIENCE

### AI & Decentralized Tech Intern

Aug – Oct 2025

Blockseblock (Virtual)

- Developed & deployed SnapShop-AI—a GenAI-powered shopping assistant with image recognition (React + Python + GenAI APIs) live on Vercel.
- Built Article Curator using Node.js APIs and Python AI dashboards; contributed to India Accelerator-OpenXAI-2025 repo.
- Collaborated on AI integration architecture and full-stack system design under senior mentorship.

### Intern — Civic ML

Jun – Aug 2025

Civora Nexus (Virtual)

- Enhanced Civic Anomaly Detector accuracy using ML pipelines and OpenCV for pothole detection.
- Performed civic data anomaly detection for urban infrastructure monitoring.

### Data Science Intern

Jul – Aug 2024

Prodigy Infotech (Virtual)

- Built end-to-end ML pipelines for traffic accident analysis and customer purchase prediction using scikit-learn.
- Applied feature engineering, cross-validation, and model evaluation on real-world datasets.

## DETAILED PROJECTS

### SnapShop-AI — Intelligent Multimodal E-Commerce Assistant

React, Python, GenAI APIs & Vercel

- Architected an end-to-end computer vision-to-API application utilizing production generative image recognition workflows to match visual catalog discovery.
- Engineered dynamic contextual prompt blocks to orchestrate safe tokens and structured output parsing layers.
- Configured scalable live hosting architecture on Vercel, implementing strict asynchronous state handling.

### Civic Anomaly Detector — Computer Vision Telemetry Matrix

OpenCV, Python & ML Classification

- Optimized custom frame preprocessing filters inside live video feeds to maximize structural anomaly isolation and pixel coordinates extraction.
- Fine-tuned local classification model thresholds to systematically identify pothole patterns while dropping out video ambient noise.

### Customer Purchase Prediction — Algorithmic Conversion Pipeline

Python, Scikit-Learn & Pandas

- Structured a robust pipeline traversing exploratory analytics, cross-validation, missing value strategy execution, and feature engineering.
- Trained a Decision Tree classifier scoring a benchmark accuracy of ~85% over real-world targeted bank marketing datasets.

### Traffic Accident Data Analysis — Spatiotemporal Heatmap Engine

Pandas, Seaborn & Matplotlib

- Synthesized multivariate distributions over massive datasets to classify geometric hotspot correlations and temporal safety vulnerabilities.

## EDUCATION

### B.Tech in Computer Science & Engineering (Artificial Intelligence & Machine Learning)

2022 – 2026

Sandip University, Nashik

## CERTIFICATIONS & ACHIEVEMENTS

- Certifications:** ML Specialization (Andrew Ng, DeepLearning.AI) · Generative AI Foundations (UpGrad & Microsoft) · Python for Data Science (IBM/Coursera) · Google Data Analytics (Skill India/NSDC) · Instagram System Design (Scaler) · Java-DSA (Scaler).

• **Achievements:** Deployed SnapShop-AI live to production on Vercel · Selected open-source contributor on GitHub for AI/data science repos · Participated in GenAI Exchange Hackathon & Hacknode India Hackathon.