

Aneri Bhavsar

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EDUCATION

2021 – 2025 B.Tech in Computer Science, **Ganpat University** (CGPA: 8.59)

SKILLS

Programming	Python, SQL
AI/ML	PyTorch, TensorFlow, Deep Learning, Computer Vision, LLMs, VLMs, RAG, LangChain, Lang-Graph
Vision	OpenCV, Object Detection, Segmentation, Facial Recognition, ANPR, Thermal Imaging
Tools	AWS, Edge AI, Ollama, vLLM, QGIS, ArcGIS

WORK EXPERIENCE

AI Engineer — Maharshi Industries Pvt. Ltd. June 2025 – Present

- **AI Based Quality Inspection System** : Engineered AI-driven quality inspection solutions using RF-DETR, PyTorch, OpenCV, and Vision-Language Models (Qwen, Gemma) for automated defect detection, analysis, and reporting.
- **DivyaChakshu AI** : Developed and deployed real-time surveillance systems for defense applications, including object detection, facial recognition, ANPR, and multi-camera video analytics using RGB and thermal imagery.
- **Color Change Detection** : Developed an AI-based color change detection system for DRDE Gwalior, automating chemical resistance testing and enabling remote, contactless inspection through robotic integration.

Data Science Intern — BISAG-N January 2025 – April 2025

- Developed and optimized deep learning models for geospatial AI applications, focusing on object detection and image segmentation using satellite imagery.
- Built a rooftop detection system using YOLOv8, YOLOv11, DeepLabV3+, and U-Net, leveraging Roboflow for dataset annotation and management.
- Evaluated model performance using Accuracy, Precision, Recall, IoU, and mAP, while utilizing QGIS, SNAP, OpenCV, TensorFlow, and PyTorch for geospatial data analysis.

PROJECTS

Ask ANERI – AI Health & Skincare Chatbot

Developed an AI-powered health and skincare chatbot using Retrieval-Augmented Generation (RAG), LangChain, ChromaDB, and Large Language Models (LLMs). Built a custom knowledge base covering skincare, acne, PCOS, hormonal health, and women's wellness, enabling context-aware question answering through semantic search, intelligent document retrieval, and personalized response generation. .

Collaborative Filtering Recommendation System

Built a movie recommendation system using similarity-based collaborative filtering and machine learning techniques to identify relationships between user preferences and movie features. Developed a personalized recommendation pipeline that improved recommendation relevance and user experience.

Rooftop Detection with Light Weight & Other Deep Learning Models on Satellite Imagery

Developed a rooftop detection system using YOLOv8s-seg, YOLOv11s-seg, DeepLabV3+ (ResNet50), and U-Net (ResNet50) on satellite imagery. Annotated data in Roboflow (COCO & YOLO formats) for precise roof segmentation and integrated geospatial analysis to enhance mapping accuracy and support urban planning.

CERTIFICATIONS

- AWS Cloud Practitioner / AWS Academy Cloud Foundations
- Deep Learning Specialization
- Generative AI / LangChain Certifications