Deep Isalaniya

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Career Objective

- AI/ML Engineer and Data Scientist with hands-on experience in computer vision, NLP, and deep learning. Built production-ready systems including a zero-shot CCTV anomaly detector with real-time Telegram alerting and a multilingual Indian voice assistant using QLoRA-fine-tuned Whisper ASR. Passionate about deploying research-driven AI to solve real-world problems.

Technical Skills

Languages: Python (NumPy, Pandas, Matplotlib, Scikit-learn), SQL
AI / ML: Machine Learning, Deep Learning, NLP, Computer Vision
Models & Frameworks: Whisper ASR, CLIP, YOLO, Faster R-CNN, Django, PyTorch
Tools & Databases: MySQL, Power BI, Excel, Streamlit, Git, VSCode

Education

Marwadi University, Rajkot (NAAC A+)　　　　　　　　　　　2024 − 2026
Master of Science in Data Science　　　　　　　　　　　CGPA: 9.29

Marwadi University, Rajkot (NAAC A+)　　　　　　　　　　　2021 − 2024
Bachelor of Science in Information Technology　　　　　　　　　　　CGPA: 6.40

Internships

GGST Innovation　　　　　　　　　　　Jan 2025 − Present
AI/ML Engineer Intern　　　　　　　　　　　Rajkot, Gujarat

- Architecting an end-to-end multilingual Indian voice assistant (Hindi, Telugu, Kannada) by fine-tuning OpenAI Whisper ASR using QLoRA parameter-efficient training on custom domain-specific audio datasets, significantly reducing WER on low-resource languages.
- Currently building the TTS pipeline to complete the full speech-in, speech-out voice assistant system for Indian regional language users.

Aushvera Globaliz LLP　　　　　　　　　　　Aug 2024 − Jan 2025
Data Analyst Intern　　　　　　　　　　　Gandhidham, Gujarat

- Analyzed real-time Herbal Tea market data using Python (Pandas, NumPy) and Excel; designed Power BI dashboards to surface product performance trends and enable data-driven decisions.

Brainybeam Info-Tech Pvt. Ltd.　　　　　　　　　　　May 2024 − Jun 2024
Python Developer Intern　　　　　　　　　　　Ahmedabad, Gujarat

- Developed real-time web applications using Django with Python and Pandas for backend data processing pipelines.

Projects

Zero Shot Anomaly Detection on Campus Safety — ShanghaiTech | *Python | CLIP | YOLO | Streamlit | OpenCV*　　2025

- Built a zero-shot video anomaly detection system on the ShanghaiTech Campus Dataset (13 cameras) using CLIP vision-language embeddings and YOLO object detection to identify fights, vehicle intrusions, bag throwing, and chasing – without training on any abnormal samples.
- Engineered full scoring pipeline: object-level CLIP contrastive scoring (custom normal/abnormal text prompts) → Softmax aggregation → Z-score normalization → Gaussian temporal smoothing; iteratively improved ROC-AUC via prompt engineering across violence, motion anomalies, and unauthorized vehicles.
- Deployed a Streamlit real-time monitoring dashboard with live CCTV playback and anomaly score graph; integrated Telegram Bot to auto-push annotated frame screenshots to subscribers upon anomaly detection.

Urban City Analysis & Smart City Planning | *Python | Scikit-learn | Random Forest | Gradient Boosting | Stacking*　　2024

- Built an end-to-end ML system analyzing 60K+ city records to predict crime risk, accident severity, and passenger demand using ensemble models (Random Forest, Gradient Boosting, Stacking) to support smart city planning.

New York Air Quality Prediction | *Python | Logistic Regression | Random Forest | Folium*　　2024

- Built a binary air quality classifier using NYC Open Data (2014–2023); visualized borough-level predictions on an interactive Folium map for clear stakeholder insights.

Certifications

- **IBM** – Data Analysis Using Python　　　　　　　　　　　*Oct 2024*
- **Deloitte Australia** – Data Analytics Job Simulation (Forage)　　　　　　　　　　　*Jan 2025*