

MANAV PATEL

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EDUCATION

Gujarat Power Engineering And Research Institute - GTU

B.E -Computer Engineering

CGPA : 8.66

Mehsana, India

2021 – 2025

The National Highschool

HSC

Percentage – 82%

Ahmedabad, India

2019 – 2021

WORK EXPERIENCE

BISAG-N

ML Engineer Intern

Gandhinagar,India

Jan 2025 – Apr 2025

- Developed a real-time traffic management system using **Python, OpenCV, and YOLO** for vehicle detection.
- Processed live and recorded video streams to count vehicles across multiple lanes with high accuracy.
- Stored traffic data (vehicle count, timestamps) in **SQL** for downstream analysis.
- Enhanced detection performance by **fine-tuning model parameters and optimizing video processing pipelines**.

Brainybeam Info-Tech PVT LTD

Data Science Intern

Ahmedabad ,India

Jun 2024 – Jul 2024

- Worked with the **Air Quality Index dataset** for analysis and insights.
- Utilized libraries such as **Pandas, NumPy, Matplotlib, and Scikit-learn** for data processing, visualization, and machine learning.
- Conducted **data preprocessing and created visualizations** to enhance model accuracy

SKILLS

Languages: Python , C , Java, Javascript, SQL

Frameworks & Libraries: Scikit-learn, TensorFlow, Keras, PyTorch OpenCV, Ultralytics, Flask, Django, Streamlit , LLM

Tools & Technologies: Git, Github, PowerBI, Tableau, MySQL, PostgreSQL , n8n

Soft Skills: Leadership, Technical Writing, Public Speaking, Time Management

PROJECTS

Smart Traffic Management System | [Link](#)

Python, Flask, YOLOv12, PostgreSQL

- Developed a real-time traffic management system using **video processing and computer vision**.
- Used **Python, OpenCV, YOLOv12, and PostgreSQL** to detect and count vehicles across multiple lanes.
- Enabled automated **traffic data analysis and storage** improving monitoring efficiency and scalability.

Weather Forecasting App | [Link](#)

Python, Streamlit, OpenWeatherAPI

- Built a real-time weather app using **Streamlit and OpenWeatherMap API** for city-based forecasts.
- Used **Python, REST APIs, JSON, and UI elements like metrics and emojis** for better UX.
- Improved weather data accessibility via a simple, browser-based dashboard.

British Airways Tableau Dashboard | [Link](#)

Tableau

- Designed an interactive Tableau dashboard to analyze **British Airways reviews**, offering insights across multiple metrics like entertainment, cabin service, food, and comfort.
- Integrated filters for **traveler type, seat class, continent, aircraft type, and time range** to enable granular, user-driven analysis.

ROLES AND RESPONSIBILITY

College Projects — Team Leader

Jun 2021 – Jul 2024

- Led a team in various design engineering projects during the engineering program, driving innovative solutions.

Smart India Hackathon — Team Member

Sep 2023

- Participated in SIH 2023, contributing ideas for innovative problem-solving.