

MANAV PATEL

Ahmedabad, Gujarat | P: +91 9054855520 | manavrpatel1@gmail.com | Linkdin | Github | Portfolio

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

E2M Solutions

Ahmedabad, India

Associate AI Engineer (Apr 2026 - Present) | AI Intern (Oct 2025 - Apr 2026)

Oct 2025 – Present

- Built and deployed **AI-powered automation workflows** using n8n and Zapier to streamline business processes
- Developed **full-stack applications** with integrated AI features for real-world use cases
- Designed and implemented **RAG-based systems and AI chatbots** for context-aware responses and automation
- Integrated **LLMs, APIs, and data pipelines** to deliver end-to-end AI solutions and improve operational efficiency

BISAG-N

Gandhinagar, India

ML Engineer Intern

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**.

SKILLS

Languages: Python , SQL

AI/ML: TensorFlow, Keras , PyTorch , Scikit-learn , OpenCV , LLM Integration , RAG Systems

Frameworks & Libraries: Scikit-learn, TensorFlow, Keras, PyTorch OpenCV, Flask, Fast API , LLM

Tools & Technologies: Git, Github, PowerBI, Tableau, n8n , Zapier

PROJECTS

Smart Traffic Management System | Link

Python, Flask, YOLOv12,

PostgresSQL

- 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.

PDF Q&A Agent | Link

Python, OpenAI, Vector Database, Streamlit

- Developed a **Q&A agent** for **PDFs and ArXiv** papers using **Retrieval-Augmented Generation (RAG)**.
- Implemented text extraction, chunking, embeddings, and vector search for semantic retrieval.
- Built an interactive **Streamlit app** enabling users to query documents in real time.

Customer Support Chatbot | Link

Python, SQL , Logistic

Regression

- Built a customer support chatbot with **intent detection and entity extraction** for accurate query handling.
- Designed **multi-turn dialogue flows** to gather missing details and resolve issues seamlessly.
- Integrated **ticket creation and analytics** to track and analyze customer requests.

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.