

Manav Patel




 About - Manav Patel



Manav Patel


AI/ML Engineer

 Ahmedabad, Gujarat

Innovating with AI and Data Science | Specializing in Machine Learning & Analytics

2
Internships
5+
Major Projects
8.66
CGPA
2025
Graduate

Quick Contact

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 **GitHub:** github.com/manavpatelin

  Experience

Professional Experience

ML Engineer Intern

BISAG-N

Jan 2025 – Apr 2025

 Gandhinagar, India

Key Responsibilities:

- 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

Python OpenCV YOLO SQL

Data Science Intern

Brainybeam Info-Tech PVT LTD

Jun 2024 – Jul 2024

 Ahmedabad, India

Key Responsibilities:

- 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

Python Pandas NumPy Matplotlib Scikit-learn

College Projects Team Leader

Gujarat Power Engineering And Research Institute

Jun 2021 – Jul 2024

 Mehsana, India

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

Smart India Hackathon Team Member

National Initiative

Sep 2023

 India

Participated in SIH 2023, contributing ideas for innovative problem-solving and collaborative development of technical solutions.



Projects

Major Projects

Smart Traffic Management System

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.

Python Flask YOLOv12 PostgreSQL OpenCV
Completed

Key Features:

- Real-time vehicle detection and counting
- Multi-lane traffic analysis
- Automated data storage and analysis
- Improved monitoring efficiency and scalability

[!\[\]\(cbe2492b119e39e02a1dab2af4a4b296_img.jpg\) Live Demo](#) [!\[\]\(2f36c159ea3670f7a62f64a4f1cf5c05_img.jpg\) GitHub](#)

Weather Forecasting App

Built a real-time weather app using Streamlit and OpenWeatherMap API for city-based forecasts. Used Python, REST APIs, JSON, and UI elements for better user experience.

Python Streamlit OpenWeatherAPI REST API
Completed

Key Features:

- Real-time weather data integration
- City-based forecast system
- Interactive browser-based dashboard
- Enhanced user experience with visual elements

[!\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\) Live Demo](#) [!\[\]\(944d59db1282ea95b82255c3404a2195_img.jpg\) GitHub](#)

British Airways Tableau Dashboard

Designed an interactive Tableau dashboard to analyze British Airways reviews, offering insights across multiple metrics like entertainment, cabin service, food, and comfort.

Tableau Data Visualization Business Intelligence
Completed

Key Features:

- Multi-metric review analysis
- Interactive filtering system
- Granular user-driven analysis
- Professional data visualization

[!\[\]\(28f72b996fc97883dfd9d4e8b1b16b4e_img.jpg\) Live Demo](#) [!\[\]\(834c7d0594ead3332d583e6d9bd73ce6_img.jpg\) GitHub](#)

Website Summarizer

Designed a website summarizer that uses Ollama API to summarize the content of a website.

Python Selenium Ollama
Completed

Key Features:

- Simple web interface for submitting URLs
- Uses Selenium and BeautifulSoup to extract and clean page text
- Sends content to an LLM (configured for Ollama) for summarization
- Displays the summary on the page

[🔗 Live Demo](#) [🔗 GitHub](#)

Human-like Reply Generator

Generates human-like replies to social media posts using OpenAI's GPT-4 model. It analyzes the tone and intent of the original post to create contextually appropriate responses.

Python Open AI API MongoDB
Completed

Key Features:

- Generates replies based on post tone and intent analysis
- Supports multiple social media platforms
- API endpoint for integration with other applications
- MongoDB storage for reply history

[🔗 Live Demo](#) [🔗 GitHub](#)



⚡ Technical Skills

Technical Expertise

Programming Languages

Python
SQL
Java
JavaScript
C

Machine Learning & AI

Scikit-learn
TensorFlow
Keras
PyTorch
OpenCV
Ultralytics

LLM

Web Development

Flask
Django
Streamlit

Data Analysis & Visualization

Pandas
NumPy
Matplotlib
PowerBI
Tableau

Tools & Technologies

Git
Github
MySQL
PostgreSQL
n8n

Soft Skills

Leadership
Technical Writing
Public Speaking
Time Management


 Education

Educational Background

B.E Computer Engineering

Gujarat Power Engineering And Research Institute - GTU

2021 – 2025

 Mehsana, India

CGPA: 8.66


Key Achievements:

- Consistently maintained high academic performance
- Led multiple engineering projects
- Participated in Smart India Hackathon 2023
- Specialized in Computer Vision and Machine Learning

Higher Secondary Certificate (HSC)

The National Highschool

2019 – 2021

 Ahmedabad, India

Percentage: 82%

Focus Areas:

- Science and Mathematics
- Computer Science fundamentals
- Strong foundation for engineering studies

Areas of Interest

Machine Learning Computer Vision Data Science Traffic Management Systems Deep Learning AI Applications



Resume

Resume & Professional Links



Manav_Patel_Resume.pdf

Complete professional resume with experience, projects, and technical skills

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[GitHub Portfolio](#)

[Code repositories and project showcases](#)

Quick Contact

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Contact

Get in Touch

Feel free to reach out for collaboration opportunities, project discussions, or just to connect!

Direct Contact Information



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