





MANAV THAKKAR


Machine Learning

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Summary

Passionate Machine Learning and NLP enthusiast with expertise in AI, deep learning, and intelligent systems. Proven track record in developing end-to-end ML solutions including computer vision models, NLP pipelines, and LLM-powered applications. Experienced in building production-ready systems with focus on real-world impact. Seeking opportunities to leverage ML/AI expertise in innovative, scalable solutions.

Experience

04/2024 – 07/2024
Ahmedabad

TechCompose
Frontend Developer Intern

- Developed responsive web applications including a Weather App and Expense Tracker using React.js, implementing component-based architecture and state management principles
- Designed and implemented RESTful API integrations with full CRUD operations for dynamic data handling
- Enhanced frontend development skills through hands-on experience with HTML5, CSS3, and modern JavaScript frameworks
- Collaborated in an agile environment to deliver production-ready applications within project timelines

Education

09/2022 – 06/2026

Bachelor of Technology in Artificial Intelligence & Machine Learning
Charotar University of Science and Technology
CGPA: 8.70/10.0

2019 – 2023

HSC: 82.39 Percentile SSC: 97.13 Percentile
Sardar Patel & Swami Vivekanand High School

Technical Skills

Programming Languages
Python, Java, C, C++, R, SQL

Frameworks & Libraries
TensorFlow, PyTorch, OpenCV, Streamlit, Scikit-learn, NLTK, SpaCy, React.js

Machine Learning & AI
Deep Learning, NLP, Computer Vision, Feature Engineering, Model Optimization, LLMS, RAG

Tools & Technologies
Power BI, Git, Ngrok, API Integration, CRUD Operations, ATS Systems

Languages

Gujarati
Native

Hindi
Fluent

English
Fluent

Certifications

IBM Data Science Professional Certificate
IBM

IBM Applied AI Professional Certificate
IBM

Data Analysis Using Python
IBM

Foundation to AI, Data Science & Data Analytics
Coursera

Projects

2025

Smart Resume Analyzer & Job Match Engine

NLP, LLM, RAG, TF-IDF, Streamlit

- Built an ATS-grade resume intelligence system parsing PDFs and extracting skills, education, and experience using custom NLP pipelines, regex models, and rule-based heuristics
- Implemented hybrid semantic similarity engine using TF-IDF and sentence embeddings (SBERT) to compute job-resume match scores based on keyword coverage and semantic alignment
- Developed comprehensive ATS scoring model evaluating keyword density, action verbs, and content structure while integrating LLM module to generate structured professional summaries
- Deployed production-ready Streamlit dashboard with Ngrok cloud access, displaying skills analysis, ATS breakdown, and real-time match scores

2025

Traffic Flow Optimization System

Python, ML, Optimization Algorithms

- Designed and implemented an intelligent traffic management system to optimize vehicle flow and reduce congestion
- Applied machine learning algorithms to predict traffic patterns and dynamically adjust signal timings
- Developed simulation models to test optimization strategies and measure performance improvements

2024

Handwritten Text Recognition Using Deep Learning

Python, TensorFlow, OpenCV, CNN

- Developed an end-to-end deep learning pipeline to transcribe handwritten text into digital format with high accuracy
- Implemented CNN-based architecture with custom layers for feature extraction and text recognition
- Optimized model performance through advanced feature engineering, data augmentation, and hyperparameter tuning
- Preprocessed images using OpenCV for noise reduction, binarization, and segmentation to improve recognition accuracy

2024

Fashion AI Clothing Classification System

Python, TensorFlow, Deep Learning, Computer Vision

- Built a multi-class clothing classification model achieving 97% accuracy using convolutional neural networks
- Implemented color classification module with 60% accuracy, currently undergoing optimization and refinement
- Utilized transfer learning and data augmentation techniques to improve model generalization and performance
- Planned future enhancement: Intelligent outfit matching system based on color analysis and fashion trends