

HARSHKUMAR PATEL

AI/ML Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary :

AI & ML Engineer with hands-on experience in developing and deploying machine learning, NLP, and computer vision solutions. Adept at building scalable data pipelines, integrating LLMs, and automating workflows using Python-based AI systems. Passionate about applying AI to solve real-world problems through model optimization, retrieval-augmented generation (RAG), and deep learning.

Experience :

AI & ML Intern

NicheTech Computer Solutions Pvt. Ltd., Ahmedabad

Jan 2025 – Jun 2025

- Developed and deployed **NLP and RAG-based AI chatbots** to automate complaint handling and service analytics for manufacturing and service industries.
- Built and optimized **classification models** to identify root causes of customer complaints, improving issue resolution time.
- Designed **data analysis and visualization dashboards** using Pandas and Matplotlib for engineer performance tracking and product quality insights.
- Collaborated with cross-functional teams to integrate models into production systems ensuring scalable deployment.

Education :

Master of Science (MSc) in Artificial Intelligence & Machine Learning (June 2023 – July 2025)

Gujarat University, Ahmedabad, India | **Percentage** : 64%

Bachelor of Science (BSc) in Chemistry

MG Science College, Gujarat, India | **CGPA**: 6.82

Projects :

AI Chatbot for Industry

- Built an NLP-based chatbot using **LangChain, Hugging Face, and FAISS** for complaint classification and trend analysis.
- Integrated RAG pipeline to enhance contextual responses for industrial clients.

Face Recognition Attendance System

- Designed an attendance tracking system using **YOLOv8 + DenseNet121**, achieving over **95% accuracy**.
- Automated Excel reporting and real-time camera input processing.

Sentiment Analysis

- Implemented **VADER and RoBERTa models** to analyze customer reviews for market insights and brand monitoring.

Technical Skills :

Python, TensorFlow, Scikit-learn, PyTorch, Hugging Face, LangChain, RAG, NLP, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, SQL, ReactJS, Data Visualization, Model Deployment, MLOps (Basic), Git, GitHub, Docker, FAISS, LLM Integration

Certifications :

- **Machine Learning Operations (MLOps) for Generative AI** – Google Cloud (Feb 2025)
- **Front-End Development (ReactJS)** – Jan 2023 – Jun 2023

Languages :

English (Professional Proficiency), Hindi (Native), Gujarati (Native)

Location Preference :

Open to relocation or remote opportunities globally