

## HARSHKUMAR PATEL

AI/ML Engineer

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### 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. Currently completing MSc in Artificial Intelligence & Machine Learning (July 2025)

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### 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.
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### Education :

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

Gujarat University, Ahmedabad, India

#### Bachelor of Science (BSc) in Chemistry

MG Science College, Gujarat, India | CGPA: 6.82

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### 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.
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### 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

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### Certifications :

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

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

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### Location Preference :

Open to relocation or remote opportunities globally (Europe, Canada, US, UAE).