

# HET PATEL

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## Education

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### Institute of Technology, Nirma University

2022 – 2026

*B.Tech in Electronics and Communication Engineering, Minor in Software Engineering*

*Ahmedabad, India*

**CGPA: 8.0 / 10**

## Experience

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### Shaip AI (a Ubiquity company)

Dec 2025 – Present

*Machine Learning Engineer*

*Ahmedabad, India*

- Designing and delivering internal **AI automation systems** adopted across **3+ business teams**, including autonomous research agents, operational dashboards, and intelligent email workflows that streamline day to day execution across business operations and reduce manual effort across departments.
- Building large scale **data engineering pipelines** in **Python, Bash, and Perl** to validate, preprocess, and deliver multimodal datasets spanning **computer vision, audio, and video** workflows, processing **10,000+ DICOM medical files** across client engagements with integrated **AWS S3** and **Google Cloud Storage** batch processing for format conversion, metadata extraction, and quality validation.
- Driving **technical leadership** on AI and automation initiatives, presenting solutions to senior leadership and guiding rollout across multiple teams, with deployed systems reducing manual operational effort by **60%+** on targeted workflows.

### RAAPID Inc.

May 2025 – July 2025

*AI and ML Intern*

*Ahmedabad, India*

- Built an end to end **multi agent AI recruitment platform** using **LLMs, RAG, and voice agents** to automate resume parsing, candidate interviews, and HRMS chatbot interactions, cutting manual effort by **85%** and time to hire by **70%**.
- Engineered intelligent agents with **JSON structured inference**, contextual retrieval, and **Firestore authenticated access**, reaching **95%+ accuracy** on candidate screening and deploying a real time recruiter dashboard backed by **CI/CD pipelines**, monitoring, and **MLOps** workflows.

## Projects

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### [AutoAgentX](#) 📄 | [FastAPI](#), [LangChain](#), [LLMs](#), [Streamlit](#), [Docker](#), [SQLite](#)

- Built an **autonomous AI agent platform** for document summarization, contextual Q&A, and email drafting using **LangChain** orchestration over multiple LLM providers, with persistent session memory and tool calling.
- Shipped a modular **FastAPI + Streamlit** architecture containerized with **Docker** for production deployment, with structured logging and a clean separation between agent reasoning, retrieval, and UI layers.

### [VisionCraft](#) 📄 | [ESRGAN](#), [CRAFT](#), [EasyOCR](#), [OpenCV](#), [Python](#)

- Built a high accuracy **computer vision pipeline** for the Amazon ML Challenge that extracts structured product attributes from low resolution images using **ESRGAN** super resolution, **CRAFT** text detection, and **EasyOCR**.
- Implemented metadata validation, resolution checks, OCR corruption detection, and preprocessing workflows aligned with large scale dataset quality standards, with a modular **OpenCV** based image preprocessing layer.

### [Trevis AI](#) 📄 | [Google Gemini](#), [Streamlit](#), [PyPDF2](#), [SQLite](#), [Plotly](#)

- Developed an **LLM powered resume analysis system** with structured PDF and DOCX parsing, contextual scoring against job descriptions, and analytics dashboards surfacing recruiter level insights.
- Integrated **automated email workflows** via Gmail SMTP and interview scheduling through Calendly, producing a complete recruiter facing application.

## MarketMind [↗](#) | Python, scikit-learn, Streamlit, Docker, AWS EC2

- Built an AI driven **stock market analytics dashboard** integrating real time financial data, **scikit-learn** based trend forecasting, and interactive visualizations for market analysis.
- Containerized with **Docker** and deployed on **AWS EC2** and Hugging Face Spaces for scalable public access with low latency inference.

## Technical Skills

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**Languages:** Python, C++, JavaScript, SQL, Bash, Perl

**ML and AI:** PyTorch, TensorFlow, scikit-learn, OpenCV, Pillow, PyDub, NumPy, Pandas, SciPy, Matplotlib

**GenAI and LLMs:** LangChain, Hugging Face Transformers, RAG, AI Agents, Prompt Engineering, Vector Databases (Chroma, Pinecone, FAISS)

**Frameworks:** FastAPI, Flask, Streamlit, REST APIs

**Cloud and DevOps:** AWS (EC2, S3), Google Cloud Storage, Docker, Git, CI/CD Pipelines, Linux (Ubuntu, Debian), Unix Shell

**Databases:** MySQL, SQLite, MongoDB

**Focus Areas:** Generative AI, LLMs, RAG, Agentic Systems, MLOps, Data Engineering Pipelines, Computer Vision, Audio and Video Processing, Automation, Software Engineering Practices

## Certifications

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- Complete Generative AI Course with LangChain and Hugging Face (*Krish Naik, Udemy*) [↗](#)
- AI for Organizational Leaders (*Microsoft*) [↗](#)
- Machine Learning with Python (*IBM via Coursera*) [↗](#)
- Career Essentials in Project Management (*Microsoft*) [↗](#)

## Leadership and Extracurricular

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- **Open Source Mentor**, GirlScript Summer of Code 2024, guided 40+ contributors across AI/ML projects covering code review, scoping, and shipping discipline.
- **Student Placement Coordinator**, Industry Institute Interaction Cell (IIC), Nirma University.
- **Core Committee Member**, Computer Society of India (CSI), Nirma Chapter.