Hozefa Amar

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Profile

I engineer and deploy end-to-end Generative AI and Deep Learning solutions, pioneering high-impact applications like a ~97% accurate HR Chatbot and a ~98% accurate Aadhaar Masking tool. I leverage my full-stack expertise (FastAPI, Next.js, Docker, AWS) to architect scalable and secure systems, executing projects from data engineering to final production. I am skilled in NLP, Computer Vision, and Model Interpretability, and committed to driving innovation and achieving metrics-driven results in complex problem domains.

Professional Experience

Feb 2025 – Present Udaipur, Rajasthan

Trainee Application

Kansoft Solutions Pvt Ltd

- Engineered full-stack GenAI applications using FastAPI (backend) and Next.js (frontend), and containerized solutions with Docker for streamlined deployment and portability.
- Deployed and managed scalable AI infrastructure on AWS (EC2, Bedrock, S3, Lambda), applying data engineering techniques to collect and prepare data for advanced analytics.

Jun 2024 – Sep 2024 Mumbai,India

Deep Learning Intern

Projak Infotech Pvt Ltd

- Fine-Tuned three deep learning models using Lightning AI on NVIDIA A100/Colab T4 GPUs, and deployed a scalable solution via Flask REST APIs and Docker containerization.
- Achieved ~98% accuracy across model evaluations and Designed the logic for secure Aadhaar number masking to ensure stringent data privacy compliance.

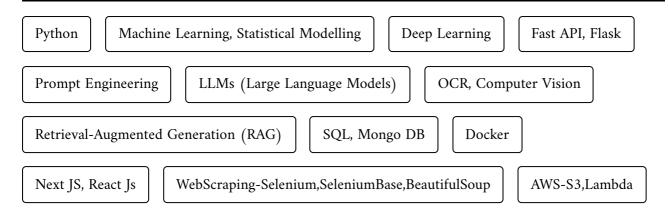
Education

Sep 2021 - May 2025

B.Tech

Udaipur, Rajasthan

College of Technology and Engineering



Achievements

GATE-DA-2024 GATE-DA-2025 Qualified Qualified

Projects

Jul 2025 - Present

HRA Chatbot

- Engineered an AI HR chatbot with LangChain, integrating a 43-document knowledge base via AWS Bedrock, Amazon Titan v3, and Claude 3 Haiku.
- Achieved ~97% accuracy in HR responses and **Optimized** response time to 2–5 seconds for seamless user interaction.

May 2025 - Present

Scraping Tool

- Developed and Automated a custom web scraping tool using
 SeleniumBase to extract and standardize user reviews from 10 different platforms.
- **Executed** advanced human-behavior simulation to successfully scrape ~500 reviews in a single, block-free flow.

Apr 2025 - Present

Medical Chatbot

- Pioneered a custom, multilingual AI chatbot for IVF clinics, designing 10+ conversation flows and integrating Text-to-Speech (TTS) for universal language support.
- **Streamlined** patient interaction and **optimized** response handling to deliver accurate answers in **under 1 second**.

Mar 2025 - May 2025

Report Analyzer

- **Developed** an intelligent medical report analysis tool for IVF/fertility reports, integrating **handwriting recognition** to interpret doctors' notes reliably.
- Achieved ~95% accuracy in generating structured patient summaries and Ensured safety by validating outputs to prevent incorrect medical suggestions.

Jun 2024 - Sep 2024

Aadhar Masking

- **Engineered** an AI-powered solution to detect and mask Aadhaar numbers for data privacy, utilizing and fine-tuning **three YOLOv8 models** with a unique anonymization approach.
- Achieved ~98% accuracy across detection and classification tasks, supporting multi-format compliance for PNG, JPEG, PDF, TIFF, and DOCX files.

Feb 2024 – Apr 2024

Plant Disease Detector

- Engineered an AI application classifying 38 plant diseases using a finetuned YOLOv8 model and leveraging NVIDIA A100 GPUs via Lightning API for efficient training.
- Achieved ~90% accuracy in disease classification, trained on a large-scale dataset of over ~2,000 images per plant.