

HARSH MAHESHWARI

Gujarat, India (Willing to Relocate)

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 [GitHub](#)  [LeetCode](#)  [Portfolio](#)

Experience

AI Engineer

May 2025 – Present

Lumeo

San Francisco USA

- Engineered end-to-end, **MLOps**-driven AI pipelines – from data curation to scalable deployment – leveraging emerging paradigms like **Zero shot detection** and **Vision Language models**.
- Designed and deployed advanced computer vision and deep learning models, integrating autonomous **AI agents** for real-time, production-grade performance.

AI Intern

May 2024 – August 2024

Ziguratss LLP

Delhi India

- Developed AI-based solutions for **face recognition and anti-spoofing** in attendance systems using computer vision techniques.
- Built applications for generating descriptive content from images and visualizing paintings on walls using deep learning models.

Skills

Programming Languages: Python, C/C++, SQL , Javascript

Frameworks and Libraries: TensorFlow, PyTorch, Hugging Face, Docker , Langchain , Next.js

Technologies: Computer Vision , NLP , Generative AI , AI Agents , MCP , LLM Finetuning , RAG

Non-Technical: Problem Solving, Decision Making, Strong Communication

Certifications:

- Deep Learning (Top 5%) , **87/100** – NPTEL IIT ROPAR
- Introduction to Machine Learning (Top 2%) , **90/100** – NPTEL IIT KGP
- Deep Learning for NLP (Top 5%) , **72/100** – NPTEL IIT KGP
- Machine Learning Specialization – DeepLearning.ai , Coursera
- Data Structures and Algorithms , **75/100** – NPTEL IIT KGP
- Data Base Management System (Top 2%) , **80/100** – NPTEL IIT KGP

Languages Spoken: English (Professional), Gujarati (Native), Hindi (Professional)

Projects

Swasthify | Python, Streamlit, Crew.ai, Langchain, Vision Transformer

[Hosted App](#)

- Built a smart health tracker that analyzes daily meals via text or image input to provide calorie breakdown, nutrient insights, and **personalized food and exercise recommendations**.
- Integrated **Vision Transformer** and **AI agents**-based pipeline to automate food recognition and generate real-time, detailed health plans through an interactive user interface.

Voice Cloning System | Python, HiFiGAN, WaveGlow

[GitHub](#)

- Designed and developed a system capable of generating **high-fidelity speech** mimicking specific voices.
- Incorporated speaker adaptation methodologies to enhance the naturalness and precision of synthesized voice outputs.

LeetCode Fine-Tuned CodeLLaMA | HuggingFace , Transformers, LoRA

[HuggingFace](#)

- Fine-tuned **CodeLLaMA 7B Model** on curated LeetCode problem-solution pairs to significantly improve competitive programming code generation.
- Achieved higher accuracy and problem coverage compared to base model in real-time coding tests.

- Built an AI-powered **data analysis agent** allowing users to upload CSV/Excel files and query data in natural language, including generating **visuals, charts, and statistical summaries**.
- Implemented a secure **sandbox execution environment** where the agent writes and executes Python code dynamically to produce accurate results.

Education

B.Tech in Artificial Intelligence & Machine Learning

2022 – 2026

Charotar University of Science and Technology
CGPA:9.12 (Current)

Changa, Gujarat

Higher Secondary

2022

GSHSEB

Palanpur, Gujarat

Achievements

Research Publication:

- Maheshwari, H., et al. (2024). "Enhancing Human Detection and Counting Efficiency Through Deep Learning: A Comprehensive Approach" — **International Conference on Recent Advances in Artificial Intelligence and Computing (ICRAIC 2024)**.
- Publication: [Paper Link](#)

Invited Speaker at IEEE AI Talk — AI Frontiers: Unlocking the Future with **RAG, GANs & YOLO**

- Delivered a talk on cutting-edge AI advancements including Retrieval-Augmented Generation (RAG), Generative Adversarial Networks (GANs), and YOLO to an audience of **150+ students**.
- Invited by IEEE CSPIT SB in collaboration with the AIML Department at CHARUSAT.

Meesho Data Challenge 2024:

- Secured **23rd rank among 196 teams** in a national-level hackathon focused on image-based attribute prediction for e-commerce cataloging using ML.

Amazon ML Challenge:

- Achieved **64th rank out of 75,000 participants (~20,000 teams)** by solving complex NLP and computer vision tasks.

Academic Excellence:

- **2X NPTEL Topper** in Machine Learning and Database Management Systems.
- Ranked in the **top 2%** nationwide.

Competitive Programming:

- Solved 750+ LeetCode problems; Max rating: **1841**, with a **500-day streak** badge.

[Leetcode](#)

References

- **Mr. Devarshi Shah** – Founder and CEO, Lumeo
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- **Mr. Vijay Bhatt** – Founder and CEO, Ziguratss LLP
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- **Dr. Nirav Bhatt** – Head of AIML Department, Charotar University
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