

Shakti Labhaniya

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PROFESSIONAL SUMMARY

Aspiring Machine Learning Engineer passionate about Large Language Models (LLMs) and Deep Learning, with hands-on experience in Python, TensorFlow, PyTorch, and ML libraries. Keen interest in research and innovation. Seeking a Machine Learning Internship to contribute to cutting-edge AI solutions while expanding expertise in AI and scalable ML systems.

TECHNICAL SKILLS

Programming Languages: Python, Java

Deep Learning Frameworks: TensorFlow, PyTorch

Libraries, Tools , Cloud & Databases: NumPy, Pandas, Scikit-learn, OpenCV, Git/Github, AWS, MLflow, Firebase, Figma

PROJECTS

Deep Image Steganography

June 2025 – Present

Deep Learning Project

Python, TensorFlow, Pytorch, StableDiffusion, DDPM, OpenCV

- Leveraged Diffusion Probabilistic Models (DDPM) and Stable Diffusion for secure data embedding
- Implemented using PyTorch and computer vision techniques
- Achieved 99.82% Structural Similarity (SSIM), ensuring near-perfect visual retention
- Maintained minimal distortion with an MSE (Mean Squared Error) of 0.4282
- Achieved stable performance on the Flickr8k dataset

Custom Agentic LLM

May 2025 – June 2025

Natural Language Processing

Python, Gradio, Transformers(Huggingface), Pytorch

- Engineered a persistent chat system with conversation history, session-wise summarize history and user preference tracking using vector embeddings for contextual awareness
- Implemented pre-trained quantized model Llama-3.2-3B-Instruct-Q8_0GGUF using Hugging Face
- Leveraged Milvus Cloud for efficient vector storage and low-latency similarity search
- Developed personalized user interactions through advanced prompt engineering and session management
- Built interactive web interface using Gradio and designed UI/UX prototype for LLM android app in Figma

EXPERIENCE

Product Engineering Intern

Mar 2025 – May 2025

Lenixvision (OPC) Pvt. Ltd

- Developed an AI-powered prototype android application to assist visually and hearing-impaired users by integrating accessibility features
- Integrated Gemini and Google lens for real-time image analysis
- Contributed to the overall product architecture and feature implementation strategy

EDUCATION

Vellore Institute of Technology

Bhopal, Madhya Pradesh

Integrated Master of Technology, Artificial Intelligence (CGPA - 8.96)

Oct 2022 – present

EXTRACURRICULARS

- Smart India Hackathon 2023 Internal Hackathon Finalist for developing robust AI/ML-powered framework for phishing domain detection system
- Technical Team Member at AI Club (Feb 2023 – Feb 2024) Contributed to diverse AI/ML projects involving autoencoder implementations, object detection systems, and geospatial applications using MapBox APIs, API testing with Postman, and hands-on experience with deep learning frameworks