

DIVAX SHAH

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Github

HuggingFace

Portfolio

linkedin

Experience

Jr. AI/ML Developer

March 2025 : Present

Avinyaa Edtech Private Limited

- Developing and refining an advanced grammar checker for KreativeSpace's AI Writing Tools Suite by fine-tuning LLMs for high accuracy and natural language output.
- Designing and training a multilingual AI text classification system to detect AI-generated content in English, Hindi, Spanish, German, Dutch, and Italian, achieving up to 95% accuracy often outperforming Quillbot's AI detector and approaching GPTZero's performance.

Jr. Python Developer

May 2024 : March 2025

Thinkbiz Technology Private Limited

- Build a scalable proof of concept of an advanced chat-bot system using LangChain Agents and LLM, capable of processing both structured (SQL) and unstructured data sources, featuring around 17 Agents with intercommunication, role-based access control, real-time document ingestion, and automated source citation for enhanced transparency and security.
- Developed an advanced OCR-LLM pipeline for Jugaad that upgraded document processing: improved invoice extraction accuracy from 15% to 85%, and receipt processing accuracy from 10% to 90% across multiple formats.

AI and Synthetic Data Developer Intern

January 2024 : April 2024

DMI Finance Private Limited

- Developed a generative AI system for generating synthetic structured data, creating a proper pipeline for data cleaning, de-duplication, and embedding, using Python, Gradio, and PyTorch for model fine-tuning.
- Designed an end to end Gradio Application for easy user interaction, simplifying the synthetic data generation process and enhancing system usability.

Projects

Sanskrit-Qwen-7B-Translate-v2

September 2025 – September 2025

- Fine-tuned Qwen/Qwen2.5-7B-Instruct specifically for Sanskrit language processing, provides Sanskrit to IAST Transliteration, Sanskrit to English Translation and Vice versa. This model was trained using LoRA (Low-Rank Adaptation) on a comprehensive Sanskrit dataset, released on the Hugging Face Hub with detailed model cards, and a demo.

Sanskrit-Qwen2.5-VL-7B-Instruct-OCR

August 2025 – September 2025

- Fine-tuned a version of Qwen2.5-VL-7B-Instruct, specifically adapted for Sanskrit OCR (Optical Character Recognition) tasks. The model was trained using LoRA (Low-Rank Adaptation) on a dataset of Sanskrit text images and their corresponding transcriptions.
- The model achieved a 100% success rate with 314 samples, with 86.38% character-level accuracy, and 50.44% token-level Jaccard similarity and 1.59% exact match accuracy. Released on Hugging Face Hub with detailed model cards, visualized metrics, and an interactive demo.

Skills

Programming Languages: Python

Frameworks & Libraries: PyTorch, TensorFlow / Keras, scikit-learn, Hugging Face Transformers, LangChain, NumPy, Pandas, Fastapi, AWS

AI Domains: Generative AI, Large Language Model (LLM/VLLM) Fine-Tuning, Reinforcement Learning (RL), Natural Language Processing (NLP), Prompt Engineering, Axolotl AI, Unsloth AI

APIs & Services: OpenAI, Google Gemini, Anthropic, Mistral AI, Groq, OpenRouter

Education

Parul Institute of Engineering and Technology

CGPA: 8.2

B.Tech, Computer Science and Engineering

2024

Gyanmanjari Secondary and Higher Secondary School, Bhavnagar

Percentage: 64%

GHSEB, Gujarat

2020