Divax Shah

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Experience

Jr. Python Developer **May 2024 : Present**

Thinkbiz Technology Private Limited

- Currently developing an advanced pipeline for Jugaad, Thinkbiz's own product, leveraging OCR (Optical Character Recognition) and LLM (Large Language Model) technologies to extract and process text from various types of invoices. This involves thorough research and evaluation of open-source tools, including OCR systems and language models.
- Conducted extensive exploration and testing of open-source OCR and LLM tools to determine their efficacy in handling diverse invoice formats and languages. Built and curated specialized datasets to enhance the accuracy and reliability of the text extraction process, ensuring the system's robustness and scalability for real-world applications.

AI and Synthetic Data Developer Intern **January 2024 : April 2024**

DMI Finance Private Limited

- Developed a generative AI system for synthetic structured data generation, from concept to deployment. This involved creating a pipeline with Python and Gradio for data cleaning, deduplication, and embedding, enhancing data quality for generative models. Additionally, I designed a robust training framework using PyTorch and Hugging Face's Transformers, enabling fine-tuning Large Language Models (LLMs) with diverse datasets, significantly improving model accuracy and performance.
- Introduced a user-friendly Gradio interface to streamline synthetic structured data generation, facilitating easy data synthesis for users and enhancing customer interaction with the system. This interface significantly simplified the synthetic structured data generation process for users.

Projects

QuizWiz **June 2024 – September 2024**

- Developed an AI-powered chatbot creation platform enabling users to create custom chatbots with unique knowledge bases in just one click.
- Integrated document processing features for training chatbots using PDFs and TXT files using llamaindex library.
- Built a web-based interface with multi-language support and analytics using Flask for web interface, llamaindex for RAG implementation, PostgreSQL for vector database, and Cloudinary for image database.

Geolocation through Image Classification **June 2024 – September 2024**

- Trained a deep learning model on a dataset of 10,500 images depicting 5 Indian cities.
- Implemented transfer learning using a VGG16 CNN model for accurate image classification.
- Deployed the model using Flask to provide a web interface for image-based geolocation.

Character Chatbot (Harry Potter and Tony Stark) **June 2024 – September 2024**

- Curated datasets of dialogues from Harry Potter and Tony Stark (Iron Man) movies.
- Fine-tuned Dialo-GPT-medium LLM model using HuggingFace Transformers for natural language interaction.
- Built conversational chatbots in Python using TensorFlow and deployed them via a web interface.

Skills

Programming Languages: Python, Java, C++

Frameworks and Libraries: TensorFlow, Keras, PyTorch, scikit-learn, Transformers, NumPy, Pandas, OpenCV, Flask, Streamlit, Tkinter

AI Services and Integrations: OpenAI, Google Gemini AI, Mistral AI

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*