PARV PAREEK

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Skills

ML: Pytroch, Tensorflow, wandb, Numpy, Pandas, Seaborn, Sci-kit learn, HuggingFace Transformers, nltk

Web-dev: NodeJS, React, Angular ,Express, MongoDB, Django

Languages: Python, JavaScript, Java, C++, C

Projects

Hindi Text Summariser | Github Link
A HIndi Text Summariser made by finetuning IndicBART Transformer
- Finetuned IndicBart model on the ILSUM dataset to using **Pytorch** and **HuggingFace** Library
- Achieved a remarkable **ROUGE1** score of **0.46**, demonstrating high accuracy and effectiveness in summarizing Hindi
- Deployed model on **Gradio** Demonstrated expertise in natural language processing and deep learning techniques applied to Indian languages.

Sentence Match | Github Link
A Semantic Similarity Detector made using LSTMs and Tensorflow
- Developed a **semantic similarity** model utilizing **Long Short-Term Memory (LSTM)** networks within **TensorFlow**.
- Employed rigorous **feature engineering** techniques and explored various distance metrics including Euclidean, Cosine, and Jaccard distances to gain deeper insights into the dataset
- Trained a custom LSTM architecture, achieving an impressive **accuracy of 0.86**. This involved fine-tuning hyperparameters, optimizing network architecture

Chat with Codebase | Github Link
Made a chat with codebase application using Retrieval Augmented Generation and Large Language Model
- Used **LLamaIndex** and **Ollama** to create a chat with codebase application that leverages RAG and LLMs.
- Helps new users understand and navigate parts of the codebase using natural language enhancing efficiency and understanding of how the code is structured and its functions.

Traffic Sign Classifier | Github Link
Developed a robust traffic sign classifier utilizing Convolutional Neural Networks (ConvNets).
- Trained the model on the **German Traffic Sign Recognition Benchmark** (GTSRB) dataset, encompassing diverse
- Demonstrated exceptional performance with a **97% accuracy rate**, showcasing the efficacy of the ConvNets.
- Leveraged TensorFlow, to implement the model and for **hyperparameter tuning**, ensuring efficient training.

Academic and Extracurricular Achievements

- **Winner**(2nd) at an **AI + Blockchain hackathon** where I built agents for autonomous communication and decision making
- Organized and hosted a **tech meetup** of 150+ developers as a Tech team member of a DeCodeCafe community
- Handled the logistics and smooth functioning of AI for Humanity track at the **IEEE HTC** as the **coordinator**

Positions of Responsibility

Research Club | Coordinator	**Oct'23 - Present**
DeCodeCafe Community | Tech Lead	**Aug'23 - Jan 24**

Education

Marwadi University, Gujarat	**2022 - 2026**
- Computer Engineering| CGPA: **9.28**	
Vapi Public School, India	**2003 - 2021**
- *ISC (Class XII), 80%*	