

Partho Das

Passionate and quick learner, with focus areas of NLP and Diffusion models. Proven track record of contributing to OSS, developing and deploying apps rapidly, and working in teams. Looking to work with a supportive and innovative organization working in the field of Deep Learning to grow and make meaningful contributions.

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Projects

Prompt Extend

[github](#) / [demo](#)

Text-Generation model to help with prompt engineering by generating suitable style cues for Stable Diffusion prompts, resulting in better image generations.

- Processed the [diffusiondb](#) dataset for the purpose of the project.
- Trained a new tokenizer and a GPT-2 model on the dataset of stable diffusion prompts for generating style cues.
- Uploaded the [model](#) on HuggingFace Hub gaining 30k downloads. Created a Gradio app for demo and hosted on HuggingFace Hub.

MagicMix

[github](#) / [demo](#)

Implementation of [MagicMix: Semantic Mixing with Diffusion Models](#) paper. This technique allows for mixing two different concepts in a semantic manner to create a new concept using Diffusion Models.

- Implemented the paper in PyTorch using components from the diffusers library and successfully reproduced results from the paper.
- Added the implementation as a [community pipeline](#) to the diffusers library. Also deployed the [implementation demo](#) on HuggingFace Spaces.

Predict Subreddit

[github](#) / [demo](#)

Multi-class text classification model to predict the subreddit of a post based on its title.

- Wrote python scripts to scrape posts from top subreddits and cleaned and processed the collected data to be used to train model.
- Fine-Tuned DistilBERT model on the collected dataset of post title pairs from top the 250 subreddits using huggingface transformers library.

Skills

Deep Learning, Natural Language Processing, Web Scraping, Data Wrangling

Python, SQL, JSON, JavaScript, HTML, CSS

PyTorch, FastAI, Pandas, Numpy, HuggingFace, Gradio, Streamlit, Flask, Regex

Git, GitHub, Jupyter, VS Code, Bash, Linux, AWS, CI/CD

Open Source Contributions

[huggingface/transformers](#)

[huggingface/diffusers](#)

Achievements

Selected as a recipient for the FastAI 2022 scholarship.

[Third place](#) in a national coding competition and [runner-up](#) in a state level coding competition.

My team's project [Dreamixer](#) for creating comic strips from text placed in the top 3 at the [Stable Diffusion Hackathon](#).