FINAL PROJECT:

GUVI LLM GPT-2 TEXT GENERATOR

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BATCH : MDTM20

Project Title

Deployment GUVI GPT Model using Hugging Face

Objective

To deploy a pre-trained or Fine tuned GPT model using HUGGING FACE SPACES and making it accessible through a web application built with Streamlit web application.

Skills Take Away

- Python
- My SQL
- Deep Learning
- Transformers
- Hugging face models
- LLM
- Streamlit

Overview

Data Extraction & Preparation:

- **Collecting or Extracting the Data of GUVI EdTech Company from various sources like,**

GUVI webpage, LinkedIn, Wikipedia, GitHub, FB, Instagram etc.

- **After Collecting the data, the data preparation is done by eliminating the special characters, unwanted spaces etc.**

Tokenization:

- **Using GPT-2 Tokenizer to convert the text data into tokens and ensuring the data is**

tokenized consistently to match the pre-trained model's requirements.

Overview

Model Training & Fine Tuning:

- **Taking a Pre Trained GPT-2 Text Generator Model.**
- **Use the Hugging Face Transformers library to fine-tune the GPT-2 model based on the prepared dataset.**
- **Monitoring the training process to prevent overfitting and ensuring the model generalizes well to new data.**

Overview

Database Connection:

- Creating a database in My SQL (TIDB Cloud server)to collect and store the Entry Data of Users.

Deployment:

- Deploying the Fine Tuned model in Hugging Face Platform.
- Creating a scalable and secure web application using Streamlit & making the model accessible to users over the internet.
- Deployment URL : https://huggingface.co/spaces/Arivu16/Guvi_GPT_Model

Portfolio

GitHub:

- https://github.com/Arivalagan16

LinkedIn:

- https://www.linkedin.com/in/arivalagan-lawrence-878438315/

THANK YOU

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