

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/Swetha15/GUVI_GPT