!pip install transformers
!pip install torch

Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.52.4) Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from transformer Requirement already satisfied: huggingface-hub<1.0,>=0.30.0 in /usr/local/lib/python3.11/dist-packag Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.11/dist-packages (from transfor Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.11/dist-packages (from tran Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-packages (from transfor Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.11/dist-packages (from tr Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from transformer Requirement already satisfied: tokenizers<0.22,>=0.21 in /usr/local/lib/python3.11/dist-packages (fr Requirement already satisfied: safetensors>=0.4.3 in /usr/local/lib/python3.11/dist-packages (from t Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.11/dist-packages (from transform Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.11/dist-packages (from hug Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: hf-xet<2.0.0,>=1.1.2 in /usr/local/lib/python3.11/dist-packages (from Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from request Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from r Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from r Requirement already satisfied: torch in /usr/local/lib/python3.11/dist-packages (2.6.0+cu124) Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from torch) (3.1 Requirement already satisfied: typing-extensions>=4.10.0 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: networkx in /usr/local/lib/python3.11/dist-packages (from torch) (3.5 Requirement already satisfied: jinja2 in /usr/local/lib/python3.11/dist-packages (from torch) (3.1.6 Requirement already satisfied: fsspec in /usr/local/lib/python3.11/dist-packages (from torch) (2025. Requirement already satisfied: nvidia-cuda-nvrtc-cu12==12.4.127 in /usr/local/lib/python3.11/dist-pa Requirement already satisfied: nvidia-cuda-runtime-cu12==12.4.127 in /usr/local/lib/python3.11/dist-Requirement already satisfied: nvidia-cuda-cupti-cu12==12.4.127 in /usr/local/lib/python3.11/dist-pa Requirement already satisfied: nvidia-cudnn-cu12==9.1.0.70 in /usr/local/lib/python3.11/dist-package Requirement already satisfied: nvidia-cublas-cu12==12.4.5.8 in /usr/local/lib/python3.11/dist-packag Requirement already satisfied: nvidia-cufft-cu12==11.2.1.3 in /usr/local/lib/python3.11/dist-package Requirement already satisfied: nvidia-curand-cu12==10.3.5.147 in /usr/local/lib/python3.11/dist-pack Requirement already satisfied: nvidia-cusolver-cu12==11.6.1.9 in /usr/local/lib/python3.11/dist-pack Requirement already satisfied: nvidia-cusparse-cu12==12.3.1.170 in /usr/local/lib/python3.11/dist-pa Requirement already satisfied: nvidia-cusparselt-cu12==0.6.2 in /usr/local/lib/python3.11/dist-packa Requirement already satisfied: nvidia-nccl-cu12==2.21.5 in /usr/local/lib/python3.11/dist-packages (Requirement already satisfied: nvidia-nvtx-cu12==12.4.127 in /usr/local/lib/python3.11/dist-packages Requirement already satisfied: nvidia-nvjitlink-cu12==12.4.127 in /usr/local/lib/python3.11/dist-pac Requirement already satisfied: triton==3.2.0 in /usr/local/lib/python3.11/dist-packages (from torch) Requirement already satisfied: sympy==1.13.1 in /usr/local/lib/python3.11/dist-packages (from torch) Requirement already satisfied: mpmath<1.4,>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from s Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.11/dist-packages (from jinj Enter a topic for text generation: Climate change and its long-term effects The following generation flags are not valid and may be ignored: ['early_stopping']. Set `TRANSFORME The attention mask and the pad token id were not set. As a consequence, you may observe unexpected b Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.

Generated Text:

Climate change and its long-term effects may not be the only concern for the United States.

It is not uncommon for oil and gas producers to try to find ways to "offset" their production from t

```
→
```

from transformers import $\ensuremath{\mathsf{GPT2LMHeadModel}}$, $\ensuremath{\mathsf{GPT2Tokenizer}}$ import torch

```
model_name = "gpt2"
tokenizer = GPT2Tokenizer.from_pretrained(model_name)
model = GPT2LMHeadModel.from_pretrained(model_name)
```

device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
model.to(device).eval()

```
def generate_text(prompt, max_length=300):
   inputs = tokenizer.encode(prompt, return tensors="pt").to(device)
   outputs = model.generate(
       inputs,
       max_length=max_length,
       num_return_sequences=1,
       no_repeat_ngram_size=2,
       temperature=0.9,
       top_k=50,
       top p=0.95,
       do_sample=True,
       early stopping=True
   )
   generated = tokenizer.decode(outputs[0], skip_special_tokens=True)
   paragraph = generated.strip().replace("\n", " ")
   if paragraph[-1] not in ".!?":
       paragraph += "."
   return paragraph
result = generate_text(user_prompt)
print("\n > Generated Paragraph:\n")
print(result)
```

→*

■ Enter a topic for text generation: how to give introduction

The following generation flags are not valid and may be ignored: ['early_stopping']. Set `TRANSFORME The attention mask and the pad token id were not set. As a consequence, you may observe unexpected b Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.

Generated Paragraph:

how to give introduction to the most popular language in the world. If you're new to learning French



Start coding or generate with AI.