```
+ Code >
        + Text
```

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from transformers import GPT2LMHeadModel, GPT2Tokenizer
import torch
model_name = "gpt2"
tokenizer = GPT2Tokenizer.from_pretrained(model_name)
model = GPT2LMHeadModel.from_pretrained(model_name)
    /usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:
     The secret `HF_TOKEN` does not exist in your Colab secrets.
     To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as secre
     You will be able to reuse this secret in all of your notebooks.
     Please note that authentication is recommended but still optional to access public models or datasets.
      warnings.warn(
     tokenizer_config.json: 100%
                                                                      26.0/26.0 [00:00<00:00, 2.34kB/s]
     vocab.json: 100%
                                                             1.04M/1.04M [00:00<00:00, 7.16MB/s]
                                                             456k/456k [00:00<00:00, 21.2MB/s]
     merges.txt: 100%
     tokenizer.json: 100%
                                                                1.36M/1.36M [00:00<00:00, 18.5MB/s]
     config.json: 100%
                                                             665/665 [00:00<00:00, 38.7kB/s]
     Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download. For better perfc
     WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to r
     model.safetensors: 100%
                                                                   548M/548M [00:06<00:00, 158MB/s]
     generation_config.json: 100%
                                                                       124/124 [00:00<00:00, 10.0kB/s]
model.eval()
→ GPT2LMHeadModel(
       (transformer): GPT2Model(
         (wte): Embedding(50257, 768)
         (wpe): Embedding(1024, 768)
         (drop): Dropout(p=0.1, inplace=False)
         (h): ModuleList(
           (0-11): 12 x GPT2Block(
             (ln_1): LayerNorm((768,), eps=1e-05, elementwise_affine=True)
             (attn): GPT2Attention(
               (c_attn): Conv1D(nf=2304, nx=768)
               (c_proj): Conv1D(nf=768, nx=768)
               (attn_dropout): Dropout(p=0.1, inplace=False)
               (resid_dropout): Dropout(p=0.1, inplace=False)
             (ln_2): LayerNorm((768,), eps=1e-05, elementwise_affine=True)
             (mlp): GPT2MLP(
               (c fc): Conv1D(nf=3072, nx=768)
               (c_proj): Conv1D(nf=768, nx=3072)
               (act): NewGELUActivation()
               (dropout): Dropout(p=0.1, inplace=False)
         (ln_f): LayerNorm((768,), eps=1e-05, elementwise_affine=True)
       (lm_head): Linear(in_features=768, out_features=50257, bias=False)
prompt = "Once upon a time in the world of Artificial Intelligence,"
input_ids = tokenizer.encode(prompt, return_tensors="pt")
with torch.no_grad(): # Disable gradient calculation
   output_ids = model.generate(
        input_ids,
       max_length=100,
       num_return_sequences=1,
        temperature=0.7, # Controls creativity; lower = more focused
                         # Limits to top 50 likely next words
        top k=50,
        top_p=0.95,
                         # Nucleus sampling (top-p sampling)
        do_sample=True
                         # Enables sampling instead of greedy search
The attention mask and the pad token id were not set. As a consequence, you may observe unexpected behavior. Please pass your input's `a
```

The attention mask is not set and cannot be inferred from input because pad token is same as eos token. As a consequence, you may observ

Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation.

generated_text = tokenizer.decode(output_ids[0], skip_special_tokens=True) print(generated_text)

Once upon a time in the world of Artificial Intelligence, we saw the beginning of an era of artificial intelligence. One of the most int

The Human Machine was created by the Artificial Intelligence of the United States, in order to train humanity in its natural and human q

Start coding or generate with AI.