Chatbot using LLM

```
from transformers import AutoModelForCausalLM, AutoTokenizer
import torch
# Load pre-trained model and tokenizer
model_name = "microsoft/DialoGPT-medium"
tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForCausalLM.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 (<a href="https://huggingface.co/settings/tokens">https://huggingface.co/settings/tokens</a>), set it as :
     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%
                                                                     614/614 [00:00<00:00, 20.8kB/s]
                   1.04M/? [00:00<00:00, 6.61MB/s]
     vocab.json:
                   456k/? [00:00<00:00, 8.62MB/s]
     merges.txt:
     config.json: 100%
                                                             642/642 [00:00<00:00, 16.8kB/s]
                                                                   863M/863M [00:11<00:00, 65.3MB/s]
     pytorch_model.bin: 100%
     model.safetensors: 100%
                                                                   863M/863M [00:18<00:00, 40.5MB/s]
                                                                      124/124 [00:00<00:00, 1.30kB/s]
     generation_config.json: 100%
# Keep track of conversation history
chat_history_ids = None
def ask_bot(user_input, chat_history_ids=None):
    # Encode input and append to chat history if exists
    new_input_ids = tokenizer.encode(user_input + tokenizer.eos_token, return_tensors='pt')
    bot_input_ids = torch.cat([chat_history_ids, new_input_ids], dim=-1) if chat_history_ids is not None else new_input_ids
    # Generate a response
    chat_history_ids = model.generate(
       bot_input_ids,
        max_length=1000,
       pad_token_id=tokenizer.eos_token_id
    )
    # Decode the last generated response
    response = tokenizer.decode(chat_history_ids[:, bot_input_ids.shape[-1]:][0], skip_special_tokens=True)
    return response, chat_history_ids
print("  Chatbot ready! Type 'quit' to stop.\n")
while True:
   user_input = input("@ You: ")
    if user_input.lower() == "quit":
       break
   response, chat_history_ids = ask_bot(user_input, chat_history_ids)
    print("  Bot:", response)
for You: who is your father?
     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 ot
     🖶 Bot: I'm not sure, but I think he's a guy.
     👴 You: I am your father
     🖶 Bot: I am your father
        You: I created you
     🖶 Bot: I created you
        You: oh so you can only answer questions?
     Bot: I created you
        You: what's the capital of France?
     🖶 Bot: I created you
     You: quit
print("  Chatbot ready! Type 'quit' to stop.\n")
                                 → Que puis-je vous aider à créer ?
                                                                                                 ⊕ ⊳
while True:
    if user_input.lower() == "quit":
        hreak
```

response, chat_history_ids = ask_bot(user_input, chat_history_ids) print(" Bot:", response)

You: who are you? Bot: I created you

You: reset

Bot: I created you

Bot: I created you

You: reset your history

Bot: reset your history

You: who are you?

Bot: I created you

You: stop hallucinating

Bot: I created you

% You: quit