ChatInterface

October 20, 2024

```
[17]: import gradio as gr
      import torch
      from transformers import AutoModelForCausalLM, AutoTokenizer
      # Load the pre-trained DialoGPT model and tokenizer (replace with your trained
      →model path if needed)
      #model_name = "microsoft/DialoGPT-small" # or path to your trained model
      model name = r'./fine tuned dialoGPT/fine tuned dialoGPT epoch3 step3600.pt'
      tokenizer = AutoTokenizer.from_pretrained(model_name)
      model = AutoModelForCausalLM.from_pretrained(model_name)
      # Move model to GPU if available
      device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
      model.to(device)
      # Function to generate a response using the trained DialoGPT model
      def generate_response(message, history):
          print("Me: {}".format(message))
          # Tokenize the input and convert it to input_ids
          new_input_ids = tokenizer.encode(message + tokenizer.eos_token,__
       →return_tensors='pt').to(device)
          # Generate a response from the model
          response_ids = model.generate(new_input_ids, max_length=1000,_
       →pad_token_id=tokenizer.eos_token_id)
          # Decode the generated response
          response = tokenizer.decode(response_ids[:, new_input_ids.shape[-1]:][0],
       →skip_special_tokens=True)
          print("ChatFlix: {}".format(response))
          # return response, history # Return both response and updated history
          return response
      # Chat Interface in Gradio
```

C:\Users\mthiruma\AppData\Local\Programs\Python\Python312\Lib\sitepackages\gradio\components\chatbot.py:228: UserWarning: The 'tuples' format for
chatbot messages is deprecated and will be removed in a future version of
Gradio. Please set type='messages' instead, which uses openai-style 'role' and
'content' keys.
 warnings.warn(
* Running on local URL: http://127.0.0.1:7873

To create a public link, set `share=True` in `launch()`.
<IPython.core.display.HTML object>

[17]:

Me: hello
ChatFlix: Hi
Me: how are you doing
ChatFlix: I'm here
Me: how's it going
ChatFlix: I'm good
Me: what are your plans
ChatFlix: I'm here
Me: wanna go out?
ChatFlix: I'm here