```
# for speech-to-text
import speech recognition as sr
# for text-to-speech
from gtts import gTTS
from playsound import playsound
# for language model
import transformers
import os
import time
# for data
import datetime
import numpy as np
# Building the AI
class ChatBot:
   def __init__(self, channel):
       print(f"---- Starting up {channel} ----")
       self.channel = channel
   def speech to text(self, only text=False):
       if only text:
           print("Me --> ", end="")
           self.text = input()
           return
       recognizer = sr.Recognizer()
       with sr.Microphone() as mic:
           recognizer.adjust for ambient noise (mic)
           print("Listening...")
           audio = recognizer.listen(mic)
           self.text = "ERROR"
       try:
           self.text = recognizer.recognize google(audio)
           print("Me --> ", self.text)
       except:
           print("Me --> ERROR")
   def text to speech(self, text, only text=False):
       print(f"{self.channel} --> {text}")
```

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if only_text:
           return
       speaker = gTTS(text=text, lang="en", slow=False)
       speaker.save("res.mp3")
       statbuf = os.stat("res.mp3")
      mbytes = statbuf.st size / 1024
       duration = mbytes / 200
       playsound("res.mp3")
       time.sleep(int(50 * duration))
       os.remove("res.mp3")
   def wake up(self, text):
       return True if self.channel.lower() in text.lower() else False
   @staticmethod
   def action time():
       return datetime.datetime.now().time().strftime("%H:%M")
# Running the AI
if name == " main ":
   channel = "Dev"
   ai = ChatBot(channel=channel)
   nlp = transformers.pipeline("conversational",
model="microsoft/DialoGPT-medium")
   os.environ["TOKENIZERS PARALLELISM"] = "true"
   ex = True
   while ex:
       ai.speech to text(only text=True)
       ## wake up
       if ai.wake up(ai.text) is True:
           res = "Hello I am Dave the AI, what can I do for you?"
       ## action time
       elif "time" in ai.text:
           res = ai.action time()
       ## respond politely
       elif any(i in ai.text for i in ["thank", "thanks"]):
           res = np.random.choice(
               [
```

```
"You're welcome!",
                   "Anytime!",
                   "No problem!",
                   "Cool!",
                   "I'm here if you need me!",
                   "Mention not",
               ]
           )
       elif any(i in ai.text for i in ["exit", "close", "bye"]):
           res = np.random.choice(
               [
                   "Tata",
                   "Have a good day",
                   "Bye",
                   "Goodbye",
                   "Hope to meet soon",
                   "Peace out!",
               ]
           ex = False
       ## conversation
       else:
           if ai.text == "ERROR":
               res = "Sorry, come again?"
           else:
               chat = nlp(transformers.Conversation(ai.text),
pad token id=50256)
               res = str(chat)
               res = res[res.find("bot >> ") + 6 :].strip()
       try:
           ai.text to speech(res, only text=False)
       except:
           pass
   print(f"---- Closing down {channel} ----")
```

```
OUTPUT :-
---- Starting up Dev ----
```

All the layers of TFGPT2LMHeadModel were initialized *from* the model checkpoint at microsoft/DialoGPT-medium.

If your task *is* similar to the task the model of the checkpoint was trained on, you can already use TFGPT2LMHeadModel *for* predictions without further training.

```
Me --> Hey
Dev --> Hey! How are you?
Me --> I'm fine. what about you?
Dev --> I'm fine too.
Me --> what day is today?
Dev --> Today is the day.
Me --> nice joke
Dev --> I'm not sure if you're being serious or not.
Me --> what is current time?
Dev --> 20:43
Me --> who is the first president of india?
Dev --> I think it was Rajendra Prasad.
Me --> wrong
Dev --> I'm not sure what you mean.
Me --> who is the first prime minister of britain?
Dev --> Robert Walpole
Me --> bye
Dev --> Peace out!
---- Closing down Dev -----
```