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import os
import datetime
import webbrowser
import pyttsx3
import speech_recognition as sr
import openai
from tkinter import *
openai.api_key = "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"
def ai(prompt):
  response = openai.ChatCompletion.create(
    model="gpt-3.5-turbo",
    messages=[
      {"role": "system", "content": "You are a helpful assistant."},
      {"role": "user", "content": prompt},
    ],
    max_tokens=256,
    n=1,
    stop=None,
    temperature=0.7,
    top_p=1,
    frequency_penalty=0,
    presence_penalty=0
  )
  generated_text = response["choices"][0]["message"]["content"]
  generated_text_label.config(text=generated_text)
  root.update()
  speak(generated_text)
  return generated_text
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def speak(text):
  try:
    engine = pyttsx3.init()
    engine.say(text)
    engine.runAndWait()
  except pyttsx3.EngineError as e:
    print(f"Error in speak function: {e}")
  except pyttsx3.UnknownValueError:
    print("Text-to-speech could not understand the speech.")
  except pyttsx3.RequestError as e:
    print(f"Error in text-to-speech request: {e}")
def take_command():
  r = sr.Recognizer()
  with sr.Microphone() as source:
    print("Listening...")
    r.pause_threshold = 0.5
    audio = r.listen(source)
    try:
      command = r.recognize_google(audio, language="en-in")
      print(f"User said: {command}")
      return command.lower()
    except sr.UnknownValueError:
      print("Sorry, I didn't understand that.")
      return None
    except sr.RequestError as e:
      print(f"Could not request results from Google Speech Recognition service; {e}")
      return None
def search():
  search_query = search_entry.get()
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if search_query:
    response = ai(prompt=search_query)
    search_entry.delete(0, END)
  else:
    speak("Please provide a search query.")
def start_listening():
  microphone_button.config(bg="red")
  command = take_command()
  if command:
    response = ai(prompt=command)
    generated_text_label.config(text=response)
  microphone_button.config(bg="SystemButtonFace")
def create_start_button():
  global generated_text_label, search_entry, microphone_button
  search_frame = Frame(root)
  search_frame.pack(pady=80)
  search_entry = Entry(search_frame, width=40)
  search_entry.pack(side=LEFT, padx=5)
  search_entry.bind("<Return>", lambda event: search())
  search_button = Button(search_frame, text="Search", command=search)
  search_button.pack(side=LEFT, padx=5)
  microphone_icon = PhotoImage(file=r"C:\Users\rishi\Downloads\free-microphone-icon-342-
thumb.png")
  microphone_icon = microphone_icon.subsample(14)
  microphone_button = Button(search_frame, image=microphone_icon, command=start_listening,
bd=0)
  microphone_button.image = microphone_icon
  microphone_button.pack(side=LEFT, padx=5)
  microphone_button.bind("<Enter>", on_enter)
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microphone_button.bind("<Leave>", on_leave)
  generated_text_label = Label(root, text="")
  generated_text_label.pack()
def on_enter(event):
  microphone_button.config(bg="lightblue")
def on_leave(event):
  microphone_button.config(bg="SystemButtonFace")
def start_program():
  while True:
    user_command = take_command()
    if user_command:
      print(f"User command recognized: {user_command}")
      if "using ai" in user_command:
        ai(prompt="")
      elif "open google" in user_command:
        root.update()
        speak("Opening Google.")
        webbrowser.open("https://www.google.com")
      elif "open youtube" in user_command:
        root.update()
        speak("Opening YouTube.")
        webbrowser.open("https://www.youtube.com")
      elif "play music" in user_command:
        root.update()
        speak("Playing music.")
        music_path = "C:\\Users\\rishi\\Downloads\\Neeve-SenSongsMp3.Co.mp3"
        if os.path.exists(music_path):
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os.startfile(music_path)
else:
   root.update()
   speak("Sorry, the specified music file was not found.")
elif "what is the time" in user_command:
   current_time = datetime.datetime.now().strftime("%H:%M")
   root.update()
```