import streamlit as st

import openai

import speech\_recognition as sr

import pyttsx3

# Initialize text-to-speech engine

engine = pyttsx3.init()

# Set your OpenAI API key

openai.api\_key = 'YOUR\_API\_KEY'

st.title("Shivam's SmartBot")

# Function to convert text to speech

def speak(text):

engine.say(text)

engine.runAndWait()

# Function to get audio input

def get\_audio():

r = sr.Recognizer()

with sr.Microphone() as source:

st.write("Listening...")

audio = r.listen(source)

try:

text = r.recognize\_google(audio)

return text

except sr.UnknownValueError:

return "Sorry, I did not understand that."

except sr.RequestError:

return "Could not request results; check your network connection."

# Main interaction

if st.button("Speak"):

user\_input = get\_audio()

st.write(f"You said: {user\_input}")

# Get response from OpenAI

response = openai.ChatCompletion.create(

model="gpt-3.5-turbo",

messages=[

{"role": "system", "content": "You are Shivam's SmartBot, a friendly and helpful assistant."},

{"role": "user", "content": user\_input},

]

)

reply = response['choices'][0]['message']['content']

st.write(f"SmartBot: {reply}")

speak(reply)