

Please install these libraries

1. pip install speechrecognition
2. pip install pyttsx3

Linux Users -

1. sudo apt-get install python3-pyaudio

Windows Users -

1. pip install pyaudio

```
!pip install speechrecognition # installing the speech recognition library so that we can convert spoken words into text
```

```
Requirement already satisfied: speechrecognition in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (3.14.1)
Requirement already satisfied: typing-extensions in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (from :
WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)
WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)
WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)

[notice] A new release of pip is available: 25.0 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip
```

```
!pip install pyttsx3 # installing pyttsx3 so our program can talk back using text-to-speech
```

```
Requirement already satisfied: pyttsx3 in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (2.98)
Requirement already satisfied: comtypes in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (from pyttsx3)
Requirement already satisfied: pypiwin32 in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (from pyttsx3)
Requirement already satisfied: pywin32 in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (from pyttsx3) (:
WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)
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WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)

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```

```
!pip install pyaudio # installing pyaudio to access and work with the microphone for voice input
```

```
Requirement already satisfied: pyaudio in c:\users\saita\appdata\local\programs\python\python311\lib\site-packages (0.2.14)
WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)
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WARNING: Ignoring invalid distribution ~otobook (C:\Users\saita\AppData\Local\Programs\Python\Python311\Lib\site-packages)

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✓ This code will not run on Google Colab as this requires access to microphone. You will have to run this code in your local machine.

```
import speech_recognition as sr
import pyttsx3

# setting up the recognizer from the speech_recognition library
r = sr.Recognizer()

# function that will speak whatever text we give to it
def SpeakText(command):
    # starting the text-to-speech engine
    engine = pyttsx3.init()
    engine.say(command)
    engine.runAndWait()

# running a loop so the program keeps listening to my voice
while(1):
    try:
        # using the microphone to take voice input
        with sr.Microphone() as source2:
            # letting it adjust to the background sound before listening
            r.adjust_for_ambient_noise(source2, duration=0.2)

            # now it listens to my voice
            audio2 = r.listen(source2)

            # trying to understand what I said using google
```

```
MyText = r.recognize_google(audio2)
MyText = MyText.lower()

print("Did you say "+MyText)
SpeakText(MyText)

# if the request to google fails
except sr.RequestError as e:
    print("Could not request results; {}".format(e))

# if it couldn't understand what I said
except sr.UnknownValueError:
    print("unknown error occured")
```



unknown error occured

Did you say so you can see there is

Did you say let me

Could not request results; recognition connection failed: [Errno 11001] getaddrinfo failed
Could not request results; recognition connection failed: [Errno 11001] getaddrinfo failed
Could not request results; recognition connection failed: [Errno 11001] getaddrinfo failed
Could not request results; recognition connection failed: [Errno 11001] getaddrinfo failed
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