

# Text to Speech conversion using GTTS

```
In [1]: pip install gtts --no-warn-script-location
```

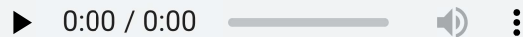
```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: gtts in c:\users\rachana jena\appdata\roaming\python\python312\site-packages (2.5.3)
Requirement already satisfied: requests<3,>=2.27 in c:\programdata\anaconda3\lib\site-packages (from gtts) (2.32.2)
Requirement already satisfied: click<8.2,>=7.1 in c:\programdata\anaconda3\lib\site-packages (from gtts) (8.1.7)
Requirement already satisfied: colorama in c:\programdata\anaconda3\lib\site-packages (from click<8.2,>=7.1->gtts) (0.4.6)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.2.2)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2024.6.2)
Note: you may need to restart the kernel to use updated packages.
```

```
In [2]: from gtts import gtts
        from IPython.display import Audio

        text_to_speech = gtts('Hello everyone, my name is Rachana Jena, and I have recently studied in MCA (Master of Computer Applications)')
        text_to_speech.save('text_to_speech_gtts.wav')
        sound_file = 'text_to_speech_gtts.wav'

        Audio(sound_file, autoplay=False)
```

Out[2]:



## Text to Speech conversion using pyttsx3

### Changing the gender using pyttsx3

```
In [3]: pip install pyttsx3 --no-warn-script-location
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pyttsx3 in c:\users\rachana jena\appdata\roaming\python\python312\site-packages (2.97)
Requirement already satisfied: comtypes in c:\users\rachana jena\appdata\roaming\python\python312\site-packages (from pyttsx3) (1.4.7)
Requirement already satisfied: pypiwin32 in c:\users\rachana jena\appdata\roaming\python\python312\site-packages (from pyttsx3) (223)
Requirement already satisfied: pywin32 in c:\programdata\anaconda3\lib\site-packages (from pyttsx3) (305.1)
Note: you may need to restart the kernel to use updated packages.
```

```
In [4]: import pyttsx3
        from IPython.display import Audio

        text = '''Hello everyone, my name is Rachana Jena, and I have recently studied in MCA (Master of Computer Application)'''

        audio = pyttsx3.init()
        audio.setProperty('rate', 150)
        audio.setProperty('volume', 0.8)

        # change the voices
        voice = audio.getProperty('voices')

        # 0 for male and 1 for female
        audio.setProperty('voice', voice[0].id)      # for male voice
        #audio.setProperty('voice', voice[1].id)     # for female voice

        # text-to speech conversion
        audio.say(text)

        # save the audio file
        audio.save_to_file(text, 'test_male_Voice.mp3')
        #audio.save_to_file(text, 'test_female_Voice.mp3')

        audio.runAndWait()
```

```
In [ ]:
```