

Text to Speech conversion using GTTS

In [2]: `pip install gtts`

Collecting gtts

Downloading gTTS-2.5.3-py3-none-any.whl.metadata (4.1 kB)

Requirement already satisfied: requests<3,>=2.27 in c:\users\chitt\anaconda3\lib\site-packages (from gtts) (2.32.2)

Requirement already satisfied: click<8.2,>=7.1 in c:\users\chitt\anaconda3\lib\site-packages (from gtts) (8.1.7)

Requirement already satisfied: colorama in c:\users\chitt\anaconda3\lib\site-packages (from click<8.2,>=7.1->gtts) (0.4.6)

Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\chitt\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.0.4)

Requirement already satisfied: idna<4,>=2.5 in c:\users\chitt\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (3.7)

Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\chitt\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.2.2)

Requirement already satisfied: certifi>=2017.4.17 in c:\users\chitt\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2024.7.4)

Downloading gTTS-2.5.3-py3-none-any.whl (29 kB)

Installing collected packages: gtts

Successfully installed gtts-2.5.3

Note: you may need to restart the kernel to use updated packages.

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

```
text_to_speech = gTTS('Hello , I am Chittaranjan. I am data science student. I  
this Project i am using google-text-speech for conversion. Lets explore Function  
of Python together . Have a great learning.',lang='hi',tld='com')
```

```
text_to_speech.save('text_to_speech_gtts.wav')
```

```
sound_file = 'text_to_speech_gtts.wav'
```

```
Audio(sound_file, autoplay= False)
```

Out[4]:

▶ 0:00 / 0:15 ———— 🔊 ⋮

Text to Speech conversion using pyttsx3

Changing the gender using pyttsx3

In [9]: `pip install pyttsx3`

```

Collecting pyttsx3
  Downloading pyttsx3-2.91-py3-none-any.whl.metadata (3.8 kB)
Collecting comtypes (from pyttsx3)
  Downloading comtypes-1.4.7-py3-none-any.whl.metadata (6.5 kB)
Collecting pypiwin32 (from pyttsx3)
  Downloading pypiwin32-223-py3-none-any.whl.metadata (236 bytes)
Requirement already satisfied: pywin32 in c:\users\chitt\anaconda3\lib\site-packages (from pyttsx3) (305.1)
Downloading pyttsx3-2.91-py3-none-any.whl (33 kB)
Downloading comtypes-1.4.7-py3-none-any.whl (226 kB)
----- 0.0/226.8 kB ? eta -:--:--
----- 92.2/226.8 kB 1.7 MB/s eta 0:00:01
----- 174.1/226.8 kB 1.7 MB/s eta 0:00:01
----- 226.8/226.8 kB 1.5 MB/s eta 0:00:00
Downloading pypiwin32-223-py3-none-any.whl (1.7 kB)
Installing collected packages: pypiwin32, comtypes, pyttsx3
Successfully installed comtypes-1.4.7 pypiwin32-223 pyttsx3-2.91
Note: you may need to restart the kernel to use updated packages.

```

```

In [19]: import pyttsx3
         from IPython.display import Audio

         text = '''Hello , I am Chittaranjan. I am data science student. In
         this Project i am using google-text-speech for conversion. Lets explore Function
         of Python together . Have a great learning.'''

         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 []: