

Text to Speech conversion using GTTS

```
In [12]: !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\soham\anaconda3\lib\site-packages (from gtts) (2.32.2)

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

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

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

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

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

Requirement already satisfied: certifi>=2017.4.17 in c:\users\soham\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

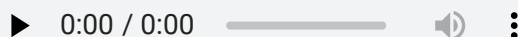
```
In [14]: from gtts import gTTS
from IPython.display import Audio

text_to_speech = gTTS('welcome to World data science programme under guidance.
                        classes will help practice exposure to boost up technic
                        and increase learning for coding skills. we conduct this
                        both non-technical and technical learners. Thank you.')

text_to_speech.save('text_to_speech_gtts.wav')
sound_file = 'text_to_speech_gtts.wav'

Audio(sound_file, autoplay=False)
```

Out[14]:



Text to Speech conversion using pytsx3 Changing the gender using pytsx3

```
In [16]: !pip install pytsx3
```

```

Collecting pyttsx3
  Downloading pyttsx3-2.98-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\soham\anaconda3\lib\site-packa
ges (from pyttsx3) (305.1)
Downloading pyttsx3-2.98-py3-none-any.whl (34 kB)
Downloading comtypes-1.4.7-py3-none-any.whl (226 kB)
----- 0.0/226.8 kB ? eta -:--:--
----- 41.0/226.8 kB 1.9 MB/s eta 0:00:01
----- 112.6/226.8 kB 1.6 MB/s eta 0:00:01
----- 225.3/226.8 kB 2.3 MB/s eta 0:00:01
----- 226.8/226.8 kB 1.7 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 pyttsx3-2.98

```

```

In [29]: import pyttsx3
         from IPython.display import Audio

         text = '''welcome to naresh technology datascience programme under prakash senap
                 training will help practice exposure to boost up technical skill
                 and increase learning for coding skills.
                 we conduct this programme for both non-technical & technical learners. T

         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 []:

In []: