

Text to Speech Conversion using GTTS

In [2]: `pip install gtts`

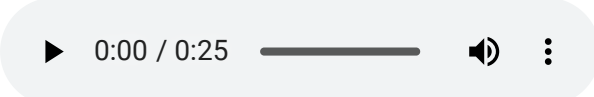
Requirement already satisfied: gtts in c:\users\user\anaconda3\lib\site-packages (2.5.3)
 Requirement already satisfied: requests<3,>=2.27 in c:\users\user\anaconda3\lib\site-packages (from gtts) (2.32.2)
 Requirement already satisfied: click<8.2,>=7.1 in c:\users\user\anaconda3\lib\site-packages (from gtts) (8.1.7)
 Requirement already satisfied: colorama in c:\users\user\anaconda3\lib\site-packages (from click<8.2,>=7.1->gtts) (0.4.6)
 Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\user\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.0.4)
 Requirement already satisfied: idna<4,>=2.5 in c:\users\user\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (3.7)
 Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\user\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2.2.2)
 Requirement already satisfied: certifi>=2017.4.17 in c:\users\user\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts) (2024.7.4)
 Note: you may need to restart the kernel to use updated packages.

In [6]: `from gtts import gTTS
 from IPython.display import Audio`

`text_to_speech = gTTS(''gTTS (Google Text-to-Speech), a Python library and CLI
 Writes spoken mp3 data to a file, a file-like object (bytestring) for further au
 It features flexible pre-processing and tokenizing.'',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[6]: 

In [37]: `from gtts import gTTS
 from IPython.display import Audio`

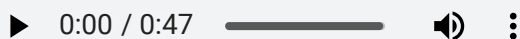
`text_to_speech = gTTS(''Good Morning Sir/Madam, thank you for giving me this op
 I completed my major in computer science from GH Rasoni University in Madhya Pr
 I like to dance and listen to music in my free time.
 I am skilled in Python,HTML,CSS and SQL. Other than that, my strengths are that
 My goal for the future is to be in a senior position in my field of work.
 Thanks again for giving me this opportunity.
 '',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[37]:



Text to Speech conversion using pyttsx3

Changing the gender using pyttsx3

In [2]: `pip install pyttsx3`

```
Collecting pyttsx3
  Downloading pyttsx3-2.97-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\user\anaconda3\lib\site-packages (from pyttsx3) (305.1)
Downloading pyttsx3-2.97-py3-none-any.whl (34 kB)
Downloading comtypes-1.4.7-py3-none-any.whl (226 kB)
----- 0.0/226.8 kB ? eta -:-:--
----- 143.4/226.8 kB 4.3 MB/s eta 0:00:01
----- 226.8/226.8 kB 3.5 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 pyttsx3-2.97
Note: you may need to restart the kernel to use updated packages.
```

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

        text='''Good Morning Sir/Madam, thank you for giving me this opportunity, my name is
        I completed my major in computer science from GH Rasoni University in Madhya Pradesh.
        I like to dance and listen to music in my free time.
        I am skilled in Python,HTML,CSS and SQL. Other than that, my strengths are that I am a hard worker.
        My goal for the future is to be in a senior position in my field of work.
        Thanks again for giving me this opportunity. '''

        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, 'text_male_voice.mp3')
audio.save_to_file(text, 'text_female_voice.mp3')

audio.runAndWait()
```

In []: