Text To Speech Conversion

September 13, 2024

1 Text to Speech conversion using GTTS

1.1 GTTS: Google text to speech

```
[6]: !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\tanishq\anaconda3\lib\site-packages (from gtts) (2.32.3)
     Requirement already satisfied: click<8.2,>=7.1 in
     c:\users\tanishq\anaconda3\lib\site-packages (from gtts) (8.1.7)
     Requirement already satisfied: colorama in c:\users\tanishq\anaconda3\lib\site-
     packages (from click<8.2,>=7.1->gtts) (0.4.6)
     Requirement already satisfied: charset-normalizer<4,>=2 in
     c:\users\tanishq\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts)
     (2.0.4)
     Requirement already satisfied: idna<4,>=2.5 in
     c:\users\tanishq\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts)
     Requirement already satisfied: urllib3<3,>=1.21.1 in
     c:\users\tanishq\anaconda3\lib\site-packages (from requests<3,>=2.27->gtts)
     Requirement already satisfied: certifi>=2017.4.17 in
     c:\users\tanishq\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
[32]: from gtts import gTTS
      from IPython.display import Audio
      text_to_speech = gTTS('''Hello, I am Tanishq. I am a data science student. In_
       ⇔this project i am using
      google-text-to-speech for conversion. Lets explore functionalities of python_{\sqcup}
       →together. Have a great learning.''')
```

[32]: <IPython.lib.display.Audio object>

2 Text to Speech conversion using GTTS

2.0.1 Changing the gender using pyttsx3

```
[23]: | !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\tanishq\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 -:--:-
       ----- 41.0/226.8 kB 2.0 MB/s eta 0:00:01
          ------ 112.6/226.8 kB 1.7 MB/s eta 0:00:01
          ----- 174.1/226.8 kB 1.5 MB/s eta 0:00:01
       ----- 225.3/226.8 kB 1.3 MB/s eta 0:00:01
       ----- 226.8/226.8 kB 1.3 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
[30]: import pyttsx3
     from IPython.display import Audio
     text = '''Hello, I am Tanishq. I am a data science student. In this project i⊔
      →am using
     google-text-to-speech for conversion. Lets explore functionalities of python∪
      ⇔together. Have a great learning.'''
     audio = pyttsx3.init() # initializes the text-to-speech engine.
     audio.setProperty('rate', 150) # adjust the speed
     audio.setProperty('volume', 0.8) # adjust the volume
```