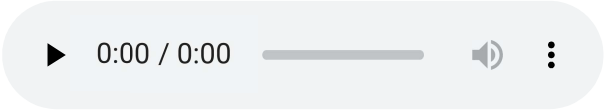
In [1]:
```
pip install gtts
```

```
Requirement already satisfied: gtts in c:\users\mdtan\anaconda3\lib\site-packages
(2.5.3)
Requirement already satisfied: requests<3,>=2.27 in c:\users\mdtan\anaconda3\lib
\site-packages (from gtts) (2.32.2)
Requirement already satisfied: click<8.2,>=7.1 in c:\users\mdtan\anaconda3\lib\si
te-packages (from gtts) (8.1.7)
Requirement already satisfied: colorama in c:\users\mdtan\anaconda3\lib\site-pack
ages (from click<8.2,>=7.1->gtts) (0.4.6)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\mdtan\anacond
a3\lib\site-packages (from requests<3,>=2.27->gtts) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\mdtan\anaconda3\lib\site-
packages (from requests<3,>=2.27->gtts) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\mdtan\anaconda3\lib
\site-packages (from requests<3,>=2.27->gtts) (2.2.2)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\mdtan\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 [8]:
```
from gtts import gTTS
from IPython.display import Audio

text_to_speech = gTTS('''Data Science
Data science is a broad, multidisciplinary field that focuses on extracting insi

Data Collection and Cleaning: Gathering data from various sources and ensuring i
Data Analysis: Using statistical methods to explore and understand data.
Data Visualization: Creating visual representations of data to communicate findi
Machine Learning: Applying algorithms to data to make predictions or identify pa
Big Data Technologies: Utilizing tools like Hadoop and Spark to handle large-sca
Machine Learning
Machine learning is a subset of artificial intelligence (AI) that focuses on dev

Supervised Learning: Training models on labeled data to make predictions.
Unsupervised Learning: Finding hidden patterns in unlabeled data.
Reinforcement Learning: Training models to make decisions by rewarding desired b
Neural Networks and Deep Learning: Using complex algorithms inspired by the huma

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

Audio(sound_file, autoplay= False)
```

Out[8]:




In [3]:
```
pip install pyttsx3
```

```
Requirement already satisfied: pyttsx3 in c:\users\mdtan\anaconda3\lib\site-packa
ges (2.91)
Requirement already satisfied: comtypes in c:\users\mdtan\anaconda3\lib\site-pack
ages (from pyttsx3) (1.4.7)
Requirement already satisfied: pypiwin32 in c:\users\mdtan\anaconda3\lib\site-pac
kages (from pyttsx3) (223)
Requirement already satisfied: pywin32 in c:\users\mdtan\anaconda3\lib\site-packa
ges (from pyttsx3) (305.1)
Note: you may need to restart the kernel to use updated packages.
```

In [ ]:

```
import pyttsx3
from IPython.display import Audio

text = '''Data Science
Data science is a broad, multidisciplinary field that focuses on extracting insi

Data Collection and Cleaning: Gathering data from various sources and ensuring i
Data Analysis: Using statistical methods to explore and understand data.
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audio = pyttsx3.init()
audio.setProperty('rate', 120)
audio.setProperty('volume', 5)

# 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 [ ]: