Lab 39

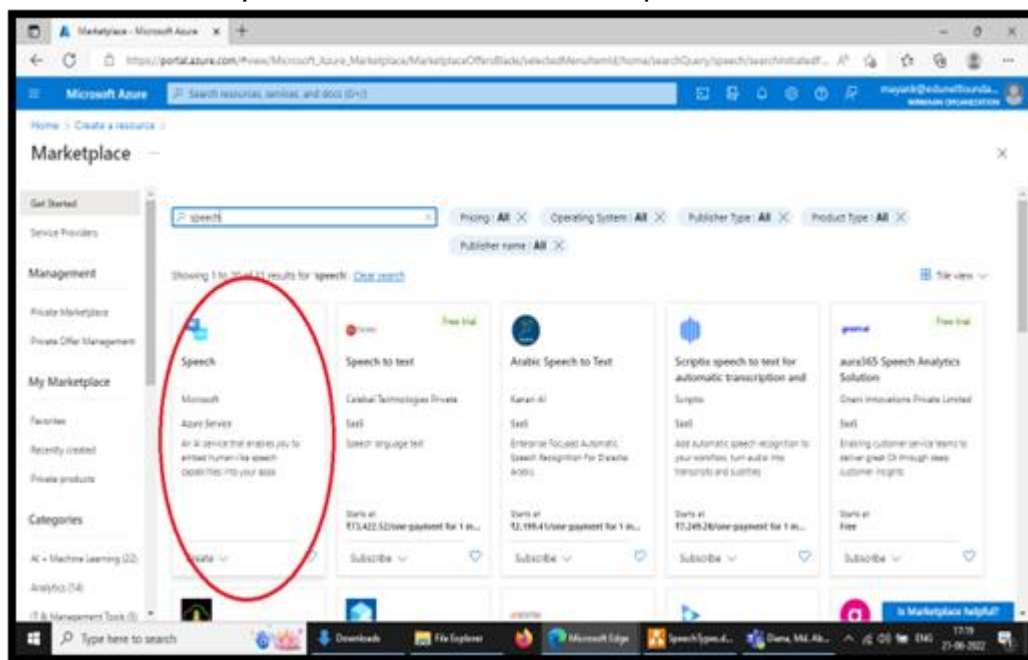## Classroom Activity: Using Cognitive Services in Python Scripts

<u>Task</u>: Create a Speech resource in Azure and use it in python script
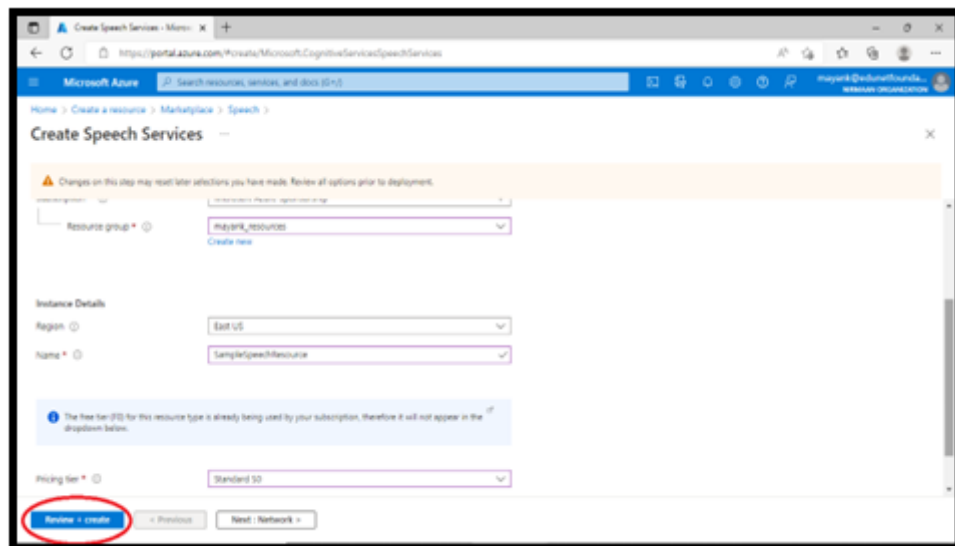
Using Speech API
1. Select *Speech* resource from marketplace.
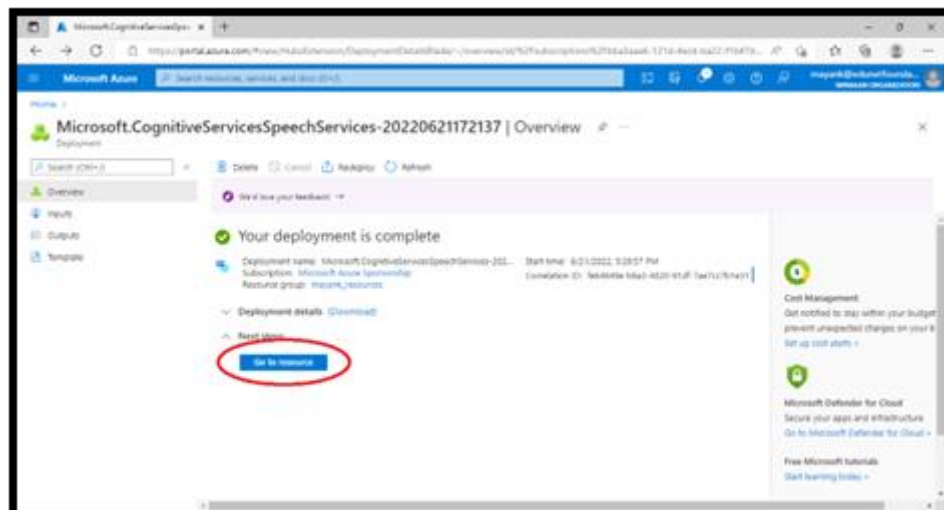

2. Fill in mandatory details, such as

  a. Resource Group
  b. Region
  c. Name
  d. Pricing Tier

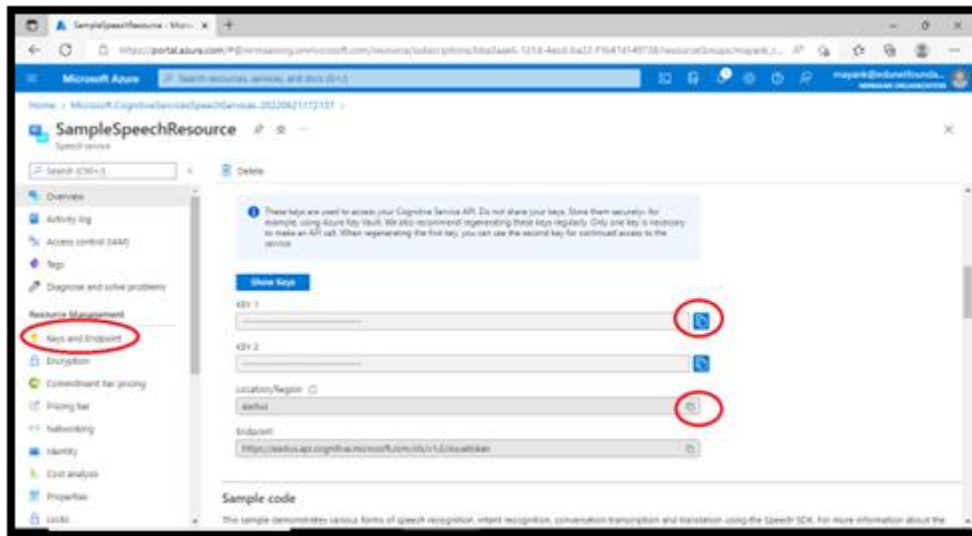Click on *Review + Create*

3.   Let the validation pass. Click on *Create*.

4.   Click on *Go to resource*

5.   Scroll down. Click on *Keys and Endpoint*.
     Copy *Key* and *Location/Region*.

6.   Next part is creating an executable code that will take the input, process it and produce the desired output.

For this we will use Visual Studio Code.

Create a file with the provided sample code. Within sample code, use copied Service Key and Service Region

    a.   **Sample Code for <u>Text to Speech</u>**

```
import azure.cognitiveservices.speech as speechsdk
speech_config = speechsdk.SpeechConfig (subscription="Service Key", region="Service Region")
audio_config = speechsdk.audio.AudioOutputConfig(use_default_speaker=True)
# The language of the voice that speaks.
speech_config.speech_synthesis_voice_name='en-US-JennyNeural'
speech_synthesizer = speechsdk.SpeechSynthesizer (speech_config = speech_config, audio_config =
audio_config)
# Get text from the console and synthesize to the default speaker.
print("Enter some text that you want to speak >")
text = input()
speech_synthesis_result = speech_synthesizer.speak_text_async(text).get()
if speech_synthesis_result.reason = speechsdk.ResultReason.SynthesizingAudioCompleted:
    print("Speech synthesized for text [{}]".format(text))
elif speech_synthesis_result.reason = speechsdk.ResultReason.Canceled:
    cancellation_details = speech_synthesis_result.cancellation_details
    print("Speech synthesis canceled: {}".format(cancellation_details.reason))
    if cancellation_details.reason = speechsdk.CancellationReason.Error:
        if cancellation_details.error_details:
            print("Error details: {}".format(cancellation_details.error_details))
            print("Did you set the speech resource key and region values?")
```

Now, run this file.