

## SPRINT DELIVERY 3

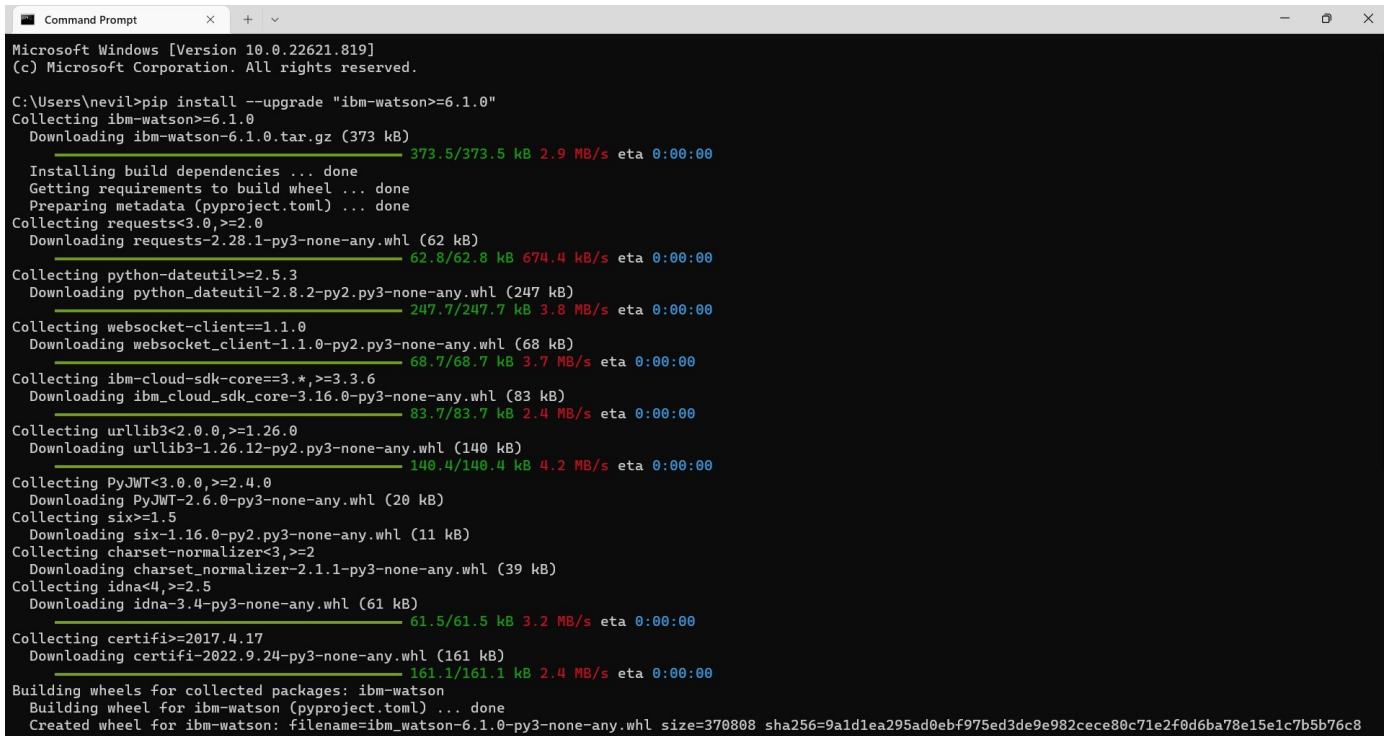
TEAM ID: PNT2022TMID28830

### ESTABLISHING THE TEXT-TO-SPEECH SERVICE

#### 1) INSTALLATION OF WATSON VERSION:CODE:

pip install --upgrade "ibm-watson>=6.1.0"

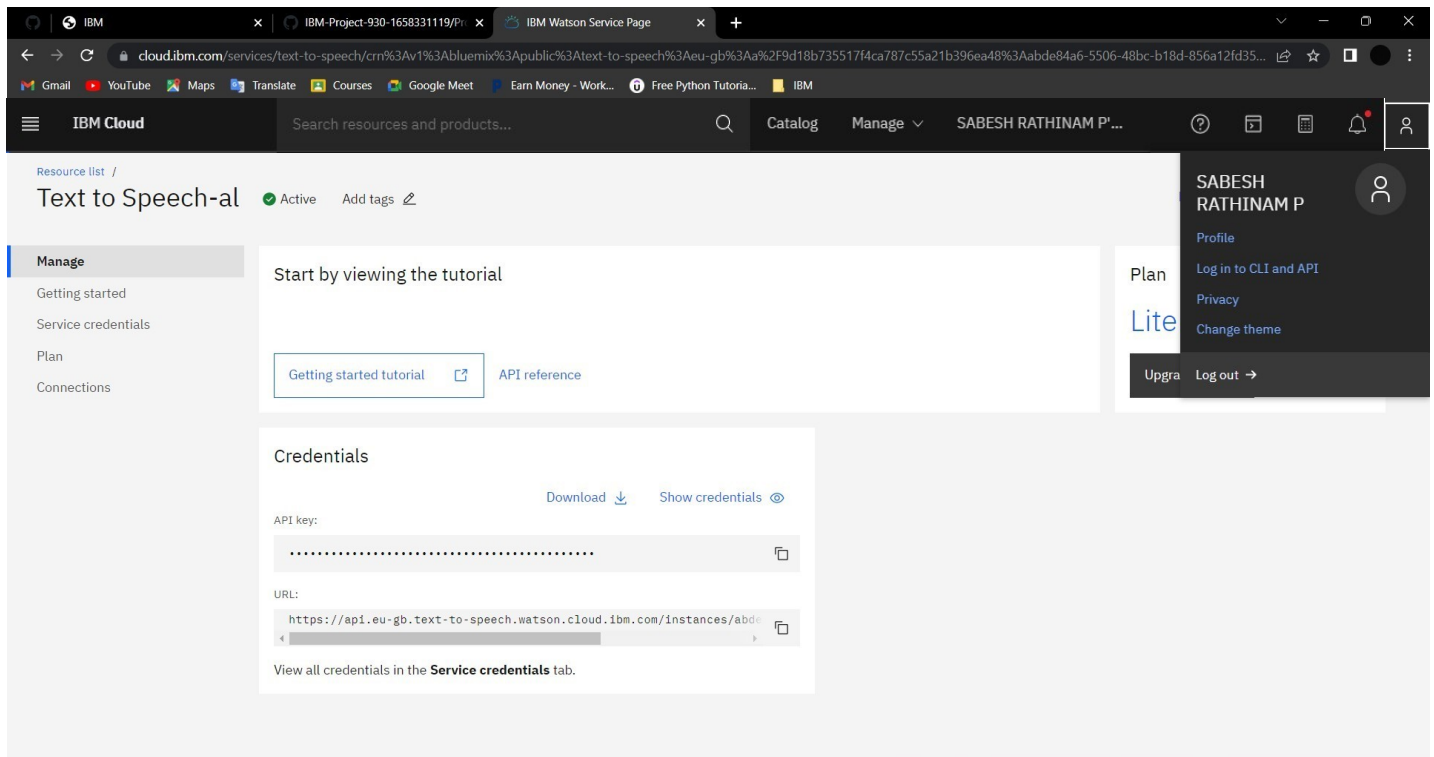
#### RESULT:



```
Microsoft Windows [Version 10.0.22621.819]
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C:\Users\nevil>pip install --upgrade "ibm-watson>=6.1.0"
Collecting ibm-watson>=6.1.0
  Downloading ibm-watson-6.1.0.tar.gz (373 kB)
    Installing build dependencies ... done
    Getting requirements to build wheel ... done
    Preparing metadata (pyproject.toml) ... done
Collecting requests<3.0,>=2.0
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
    62.8/62.8 kB 674.4 kB/s eta 0:00:00
Collecting python-dateutil>=2.5.3
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    247.7/247.7 kB 3.8 MB/s eta 0:00:00
Collecting websocket-client==1.1.0
  Downloading websocket_client-1.1.0-py2.py3-none-any.whl (68 kB)
    68.7/68.7 kB 3.7 MB/s eta 0:00:00
Collecting ibm-cloud-sdk-core==3.*,>=3.3.6
  Downloading ibm_cloud_sdk_core-3.16.0-py3-none-any.whl (83 kB)
    83.7/83.7 kB 2.4 MB/s eta 0:00:00
Collecting urllib3<2.0.0,>=1.26.0
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
    140.4/140.4 kB 4.2 MB/s eta 0:00:00
Collecting PyJWT<3.0.0,>=2.4.0
  Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)
Collecting six>=1.5
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting charset-normalizer<3,>=2
  Downloading charset_normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
    61.5/61.5 kB 3.2 MB/s eta 0:00:00
Collecting certifi>=2017.4.17
  Downloading certifi-2022.9.24-py3-none-any.whl (161 kB)
    161.1/161.1 kB 2.4 MB/s eta 0:00:00
Building wheels for collected packages: ibm-watson
  Building wheel for ibm-watson (pyproject.toml) ... done
  Created wheel for ibm-watson: filename=ibm_watson-6.1.0-py3-none-any.whl size=370808 sha256=9a1d1ea295ad0ebf975ed3de9e982cece80c71e2f0d6ba78e15e1c7b5b76c8
```

## 2) COPYING CREDENTIALS FOR API AND URL:



The screenshot shows the IBM Cloud console for the Text to Speech service. The left sidebar has a 'Manage' tab selected, with sub-links for 'Getting started', 'Service credentials', 'Plan', and 'Connections'. The main content area is titled 'Text to Speech-al' and shows a 'Start by viewing the tutorial' section with links to 'Getting started tutorial' and 'API reference'. Below this is a 'Credentials' section with a 'Download' button and a 'Show credentials' button. The 'API key' is displayed as a series of dots, and the 'URL' is shown as 'https://api.eu-gb.text-to-speech.watson.cloud.ibm.com/instances/abde...'. A footer note says 'View all credentials in the Service credentials tab.' The right sidebar shows the user profile 'SABESH RATHINAM P' with links for 'Profile', 'Log in to CLI and API', 'Privacy', and 'Change theme', along with 'Upgra' and 'Log out' buttons.

## 3) PROGRAM FOR ACESSING APIs OF TTS SERVICE:

```
from ibm_watson import TextToSpeechV1
from ibm_cloud_sdk_core.authenticators import IAMAuthenticator

authenticator = IAMAuthenticator('7NcRcpMT221nhk1kB5DTsWpK-
GQgjKFwKa7Ao1BU7zQ')

text_to_speech =
    TextToSpeechV1(authenticator=authenticat
or
)

text_to_speech.set_service_url('https://api.eu-gb.text-to-
speech.watson.cloud.ibm.com/instances/e7133289-0146-4193-a7d5- b354d6831556')

with open('para.wav', 'wb') as audio_file:
    audio_file.write( text_to_speech.synthesize(
        'its the time to take paracetomal',
```

```
voice='en-US_AllisonV3Voice',  
accept='audio/wav'  
)get_result().content)
```