# REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED (IBM PROJECT)

### **TEAM ID: PNT2022TMID51506**

#### **IMPORT LIBRARIES**

```
In []:

from tensorflow.keras.models import Sequential

from tensorflow.keras.layers import Dense, Conv2D, Flatten, Dropout,

MaxPooling2D

from tensorflow.keras.preprocessing.image import ImageDataGenerator

import numpy as np

import matplotlib.pyplot as plt

import cv2
```

## unzip the file

In []:

!unzip '/content/drive/MyDrive/IBMPROJECT/conversation engine for deaf and dumb.zip'

#### Streaming output truncated to the last 5000 lines.

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inflating: Dataset/training set/H/718.png
inflating: Dataset/training set/H/719.png
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inflating: Dataset/training set/H/72.png
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 inflating: Dataset/training set/H/727.png
 inflating: Dataset/training set/H/728.png
 inflating: Dataset/training set/H/729.png
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 inflating: Dataset/training set/H/730.png
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 inflating: Dataset/training set/H/732.png
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 inflating: Dataset/training set/H/735.png
 inflating: Dataset/training set/H/736.png
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extracting: Dataset/training set/H/742.png
 inflating: Dataset/training set/H/743.png
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 inflating: Dataset/training set/H/76.png
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 inflating: Dataset/training set/H/761.png
 inflating: Dataset/training set/H/762.png
 inflating: Dataset/training set/H/763.png
 inflating: Dataset/training set/H/764.png
 inflating: Dataset/training set/H/765.png
 inflating: Dataset/training set/H/766.png
 inflating: Dataset/training set/H/767.png
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inflating: Dataset/training set/H/768.png
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 inflating: Dataset/training set/H/770.png
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 inflating: Dataset/training set/H/772.png
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 inflating: Dataset/training set/H/774.png
 inflating: Dataset/training set/H/775.png
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extracting: Dataset/training set/H/797.png
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 inflating: Dataset/training set/H/810.png
 inflating: Dataset/training set/H/811.png
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 inflating: Dataset/training set/H/813.png
 inflating: Dataset/training set/H/814.png
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inflating: Dataset/training set/H/815.png
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extracting: Dataset/training set/H/817.png
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extracting: Dataset/training set/H/819.png
 inflating: Dataset/training set/H/82.png
extracting: Dataset/training set/H/820.png
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inflating: Dataset/training set/H/822.png
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extracting: Dataset/training set/H/829.png
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inflating: Dataset/training set/H/998.png
inflating: Dataset/training set/H/999.png
 creating: Dataset/training set/I/
inflating: Dataset/training set/I/1.png
inflating: Dataset/training set/I/10.png
inflating: Dataset/training set/I/100.png
inflating: Dataset/training set/I/1000.png
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inflating: Dataset/training set/I/1002.png
inflating: Dataset/training set/I/1003.png
```

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extracting: Dataset/training set/I/1012.png
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```

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extracting: Dataset/training set/I/1187.png
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 inflating: Dataset/training set/I/1189.png
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inflating: Dataset/training set/I/1194.png
extracting: Dataset/training set/I/1195.png
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inflating: Dataset/training set/I/1297.png
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extracting: Dataset/training set/I/1392.png
extracting: Dataset/training set/I/1393.png
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extracting: Dataset/training set/I/1433.png
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 inflating: Dataset/training set/I/1481.png
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extracting: Dataset/training set/I/1493.png
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inflating: Dataset/training set/I/157.png
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 inflating: Dataset/training set/I/159.png
 inflating: Dataset/training set/I/1590.png
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 inflating: Dataset/training set/I/1592.png
 inflating: Dataset/training set/I/1593.png
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 inflating: Dataset/training set/I/1595.png
extracting: Dataset/training set/I/1596.png
 inflating: Dataset/training set/I/1597.png
 inflating: Dataset/training set/I/1598.png
extracting: Dataset/training set/I/1599.png
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 inflating: Dataset/training set/I/1600.png
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 inflating: Dataset/training set/I/1602.png
 inflating: Dataset/training set/I/1603.png
extracting: Dataset/training set/I/1604.png
 inflating: Dataset/training set/I/1605.png
extracting: Dataset/training set/I/1606.png
 inflating: Dataset/training set/I/1607.png
 inflating: Dataset/training set/I/1608.png
 inflating: Dataset/training set/I/1609.png
 inflating: Dataset/training set/I/161.png
 inflating: Dataset/training set/I/1610.png
extracting: Dataset/training set/I/1611.png
 inflating: Dataset/training set/I/1612.png
 inflating: Dataset/training set/I/1613.png
 inflating: Dataset/training set/I/1614.png
extracting: Dataset/training set/I/1615.png
 inflating: Dataset/training set/I/1616.png
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 inflating: Dataset/training set/I/1620.png
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 inflating: Dataset/training set/I/1624.png
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extracting: Dataset/training set/I/1625.png
 inflating: Dataset/training set/I/1626.png
 inflating: Dataset/training set/I/1627.png
 inflating: Dataset/training set/I/1628.png
 inflating: Dataset/training set/I/1629.png
 inflating: Dataset/training set/I/163.png
extracting: Dataset/training set/I/1630.png
 inflating: Dataset/training set/I/1631.png
inflating: Dataset/training set/I/1632.png
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 inflating: Dataset/training set/I/1638.png
 inflating: Dataset/training set/I/1639.png
 inflating: Dataset/training set/I/164.png
extracting: Dataset/training set/I/1640.png
extracting: Dataset/training set/I/1641.png
inflating: Dataset/training set/I/1642.png
 inflating: Dataset/training set/I/1643.png
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extracting: Dataset/training set/I/1646.png
inflating: Dataset/training set/I/1647.png
inflating: Dataset/training set/I/1648.png
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 inflating: Dataset/training set/I/165.png
extracting: Dataset/training set/I/1650.png
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extracting: Dataset/training set/I/1667.png
extracting: Dataset/training set/I/1668.png
 inflating: Dataset/training set/I/1669.png
 inflating: Dataset/training set/I/167.png
 inflating: Dataset/training set/I/1670.png
extracting: Dataset/training set/I/1671.png
extracting: Dataset/training set/I/1672.png
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extracting: Dataset/training set/I/1673.png
 inflating: Dataset/training set/I/1674.png
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 inflating: Dataset/training set/I/1676.png
 inflating: Dataset/training set/I/1677.png
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extracting: Dataset/training set/I/1681.png
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extracting: Dataset/training set/I/1719.png
 inflating: Dataset/training set/I/172.png
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extracting: Dataset/training set/I/468.png
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 inflating: Dataset/training set/I/474.png
 inflating: Dataset/training set/I/475.png
extracting: Dataset/training set/I/476.png
extracting: Dataset/training set/I/477.png
 inflating: Dataset/training set/I/478.png
extracting: Dataset/training set/I/479.png
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inflating: Dataset/training set/I/48.png
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extracting: Dataset/training set/I/492.png
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extracting: Dataset/training set/I/523.png
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extracting: Dataset/training set/I/525.png
 inflating: Dataset/training set/I/526.png
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inflating: Dataset/training set/I/527.png
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 inflating: Dataset/training set/I/573.png
extracting: Dataset/training set/I/574.png
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extracting: Dataset/training set/I/575.png
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 inflating: Dataset/training set/I/621.png
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extracting: Dataset/training set/I/765.png
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inflating: Dataset/training set/I/812.png
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 inflating: Dataset/training set/I/91.png
 inflating: Dataset/training set/I/910.png
extracting: Dataset/training set/I/911.png
extracting: Dataset/training set/I/912.png
 inflating: Dataset/training set/I/913.png
 inflating: Dataset/training set/I/914.png
extracting: Dataset/training set/I/915.png
 inflating: Dataset/training set/I/916.png
 inflating: Dataset/training set/I/917.png
 inflating: Dataset/training set/I/918.png
 inflating: Dataset/training set/I/919.png
 inflating: Dataset/training set/I/92.png
 inflating: Dataset/training set/I/920.png
 inflating: Dataset/training set/I/921.png
 inflating: Dataset/training set/I/922.png
 inflating: Dataset/training set/I/923.png
 inflating: Dataset/training set/I/924.png
 inflating: Dataset/training set/I/925.png
 inflating: Dataset/training set/I/926.png
 inflating: Dataset/training set/I/927.png
 inflating: Dataset/training set/I/928.png
 inflating: Dataset/training set/I/929.png
 inflating: Dataset/training set/I/93.png
 inflating: Dataset/training set/I/930.png
 inflating: Dataset/training set/I/931.png
 inflating: Dataset/training set/I/932.png
 inflating: Dataset/training set/I/933.png
 inflating: Dataset/training set/I/934.png
 inflating: Dataset/training set/I/935.png
 inflating: Dataset/training set/I/936.png
 inflating: Dataset/training set/I/937.png
 inflating: Dataset/training set/I/938.png
 inflating: Dataset/training set/I/939.png
 inflating: Dataset/training set/I/94.png
 inflating: Dataset/training set/I/940.png
 inflating: Dataset/training set/I/941.png
 inflating: Dataset/training set/I/942.png
 inflating: Dataset/training set/I/943.png
 inflating: Dataset/training set/I/944.png
 inflating: Dataset/training set/I/945.png
 inflating: Dataset/training set/I/946.png
 inflating: Dataset/training set/I/947.png
 inflating: Dataset/training set/I/948.png
 inflating: Dataset/training set/I/949.png
 inflating: Dataset/training set/I/95.png
 inflating: Dataset/training set/I/950.png
 inflating: Dataset/training set/I/951.png
 inflating: Dataset/training set/I/952.png
 inflating: Dataset/training set/I/953.png
 inflating: Dataset/training set/I/954.png
 inflating: Dataset/training set/I/955.png
 inflating: Dataset/training set/I/956.png
```

```
inflating: Dataset/training set/I/957.png
 inflating: Dataset/training set/I/958.png
 inflating: Dataset/training set/I/959.png
 inflating: Dataset/training set/I/96.png
 inflating: Dataset/training set/I/960.png
 inflating: Dataset/training set/I/961.png
 inflating: Dataset/training set/I/962.png
 inflating: Dataset/training set/I/963.png
 inflating: Dataset/training set/I/964.png
 inflating: Dataset/training set/I/965.png
 inflating: Dataset/training set/I/966.png
 inflating: Dataset/training set/I/967.png
 inflating: Dataset/training set/I/968.png
 inflating: Dataset/training set/I/969.png
 inflating: Dataset/training set/I/97.png
 inflating: Dataset/training set/I/970.png
 inflating: Dataset/training set/I/971.png
 inflating: Dataset/training set/I/972.png
extracting: Dataset/training set/I/973.png
 inflating: Dataset/training set/I/974.png
 inflating: Dataset/training set/I/975.png
 inflating: Dataset/training set/I/976.png
 inflating: Dataset/training set/I/977.png
 inflating: Dataset/training set/I/978.png
 inflating: Dataset/training set/I/979.png
 inflating: Dataset/training set/I/98.png
 inflating: Dataset/training set/I/980.png
 inflating: Dataset/training set/I/981.png
 inflating: Dataset/training set/I/982.png
extracting: Dataset/training set/I/983.png
 inflating: Dataset/training set/I/984.png
 inflating: Dataset/training set/I/985.png
 inflating: Dataset/training set/I/986.png
 inflating: Dataset/training set/I/987.png
 inflating: Dataset/training set/I/988.png
 inflating: Dataset/training set/I/989.png
 inflating: Dataset/training set/I/99.png
 inflating: Dataset/training set/I/990.png
 inflating: Dataset/training set/I/991.png
 inflating: Dataset/training set/I/992.png
extracting: Dataset/training set/I/993.png
 inflating: Dataset/training set/I/994.png
 inflating: Dataset/training set/I/995.png
extracting: Dataset/training set/I/996.png
 inflating: Dataset/training set/I/997.png
 inflating: Dataset/training set/I/998.png
 inflating: Dataset/training set/I/999.png
```

## **IMAGE PREPROCESSING**

```
from keras.preprocessing.image import ImageDataGenerator
train datagen=ImageDataGenerator(rescale = 1./255, shear range=0.2,
zoom range=0.2,horizontal flip=True,vertical flip=False)
test datagen = ImageDataGenerator(rescale=1./255)
                                                                            In []:
x train = train datagen.flow from directory("/content/Dataset/training set",
target size=(64,64), batch size=500,
                                            class mode='categorical',
color mode ="grayscale")
Found 15750 images belonging to 9 classes.
                                                                            In []:
x test = test datagen.flow from directory("/content/Dataset/test set",
target size=(64,64), batch size=500,
                                          class mode='categorical', color mode
="grayscale")
Found 2250 images belonging to 9 classes.
                                                                            In []:
len(x_train)
                                                                           Out[]:
32
                                                                            In []:
len(x_test)
                                                                           Out[]:
5
                                                                            In []:
x train.class indices
                                                                           Out[]:
{'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F': 5, 'G': 6, 'H': 7, 'I': 8}
MODEL BUILDING
                                                                            In []:
from keras.models import Sequential
from keras.layers import Dense
from keras.layers import Convolution2D
from tensorflow.keras.layers import Conv2D, MaxPooling2D
from keras.layers import Dropout
from keras.layers import Flatten
                                                                            In []:
#Creating the model
model=Sequential()
#Adding the layers
model.add(Convolution2D(32,(3,3), input shape=(64,64,1), activation =
model.add(MaxPooling2D(pool size=(2,2))),
model.add(Convolution2D(32, (3,3), input shape=(64,64,1), activation =
'relu')),
```

```
model.add(MaxPooling2D(pool size=(2,2))),
model.add(Convolution2D(32, (3,3), input shape=(64,64,1), activation =
model.add(MaxPooling2D(pool size=(2,2))),
model.add(Flatten())
#adding hidden layers
model.add(Dense(400, activation='relu'))
model.add(Dense(200, activation='relu'))
model.add(Dense(100, activation='relu'))
#Adding the output layer
model.add(Dense(9, activation='softmax'))
                                                  In []:
model.compile(loss='categorical crossentropy', optimizer='adam',
metrics=['accuracy'])
                                                  In []:
model.fit generator(x train, steps per epoch=31, epochs=10,
validation data=x test, validation steps=40)
/usr/local/lib/python3.7/dist-packages/ipykernel launcher.py:1: UserWarning:
`Model.fit generator` is deprecated and will be removed in a future version.
Please use `Model.fit`, which supports generators.
 """Entry point for launching an IPython kernel.
Epoch 1/10
WARNING: tensorflow: Your input ran out of data; interrupting training. Make su
re that your dataset or generator can generate at least `steps per epoch * ep
ochs` batches (in this case, 40 batches). You may need to use the repeat() fu
nction when building your dataset.
y: 0.8873 - val loss: 0.2444 - val accuracy: 0.9480
y: 0.9782
Epoch 3/10
y: 0.9882
Epoch 4/10
y: 0.9951
Epoch 5/10
y: 0.9947
Epoch 6/10
y: 0.9955
Epoch 7/10
y: 0.9967
```

```
Epoch 8/10
y: 0.9984
Epoch 9/10
y: 0.9972
Epoch 10/10
y: 0.9991
                                                         Out[]:
SAVING THE MODEL
                                                          In []:
#saving the model
model.save('realtime.h5')
TEST THE MODEL
                                                          In []:
from tensorflow.keras.models import load model
from tensorflow.keras.preprocessing import image
import numpy as np
import cv2
                                                          In []:
model = load model('/content/realtime.h5')
                                                          In []:
img = image.load img('/content/Dataset/test set/H/107.png',target size =
(100, 100))
img
                                                         Out[]:
                                                          In []:
from skimage.transform import resize
def detect(frame):
   img=image.img to array(frame)
   img = resize(img, (64, 64, 1))
   img = np.expand dims(img,axis=0)
   pred=np.argmax(model.predict(img))
   op=['A','B','C','D','E','F','G','H','I']
   print("THE PREDICTED LETTER IS ",op[pred])
                                                          In []:
img=image.load img("/content/Dataset/test set/H/107.png")
```

```
detect (img)
1/1 [======= ] - Os 158ms/step
THE PREDICTED LETTER IS H
                                                                     In []:
img=image.load img('/content/Dataset/test set/E/111.png')
detect(img)
1/1 [======= ] - 0s 18ms/step
THE PREDICTED LETTER IS E
                                                                     In []:
img = image.load img('/content/Dataset/test set/B/104.png')
pred=detect(img)
THE PREDICTED LETTER IS B
tar
                                                                     In []:
#converting to tar
!tar -zcvf realtime.tgz realtime.h5
realtime.h5
CLOUD DEPLOYMENT
                                                                     In []:
!pip install watson-machine-learning-client
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
wheels/public/simple/
Collecting watson-machine-learning-client
 Downloading watson machine learning client-1.0.391-py3-none-any.whl (538 kB
)
                                | 538 kB 7.3 MB/s
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-pack
ages (from watson-machine-learning-client) (2.23.0)
Collecting lomond
 Downloading lomond-0.3.3-py2.py3-none-any.whl (35 kB)
Requirement already satisfied: tabulate in /usr/local/lib/python3.7/dist-pack
ages (from watson-machine-learning-client) (0.8.10)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packa
ges (from watson-machine-learning-client) (2022.9.24)
Collecting boto3
 Downloading boto3-1.26.8-py3-none-any.whl (132 kB)
                 | 132 kB 39.8 MB/s
Requirement already satisfied: pandas in /usr/local/lib/python3.7/dist-packag
es (from watson-machine-learning-client) (1.3.5)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-packa
ges (from watson-machine-learning-client) (1.24.3)
Collecting ibm-cos-sdk
 Downloading ibm-cos-sdk-2.12.0.tar.gz (55 kB)
```

```
| 55 kB 4.8 MB/s
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages
(from watson-machine-learning-client) (4.64.1)
Collecting s3transfer<0.7.0,>=0.6.0
  Downloading s3transfer-0.6.0-py3-none-any.whl (79 kB)
                                     | 79 kB 9.2 MB/s
Collecting botocore<1.30.0,>=1.29.8
  Downloading botocore-1.29.8-py3-none-any.whl (9.9 MB)
                                  | 9.9 MB 53.6 MB/s
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/local/lib/
python3.7/dist-packages (from botocore<1.30.0,>=1.29.8->boto3->watson-machine
-learning-client) (2.8.2)
Collecting urllib3
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
                                      | 140 kB 59.3 MB/s
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.7/dist-pack
ages (from python-dateutil<3.0.0,>=2.1->botocore<1.30.0,>=1.29.8->boto3->wats
on-machine-learning-client) (1.15.0)
Collecting ibm-cos-sdk-core==2.12.0
  Downloading ibm-cos-sdk-core-2.12.0.tar.gz (956 kB)
                               | 956 kB 54.0 MB/s
Collecting ibm-cos-sdk-s3transfer==2.12.0
  Downloading ibm-cos-sdk-s3transfer-2.12.0.tar.gz (135 kB)
                                 | 135 kB 51.1 MB/s
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-0.10.0-py2.py3-none-any.whl (24 kB)
Collecting requests
  Downloading requests-2.28.1-py3-none-any.whl (62 kB)
                                    | 62 kB 1.4 MB/s
Requirement already satisfied: charset-normalizer<3,>=2 in /usr/local/lib/pyt
hon3.7/dist-packages (from requests->watson-machine-learning-client) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.7/dist-
packages (from requests->watson-machine-learning-client) (2.10)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist-
packages (from pandas->watson-machine-learning-client) (2022.6)
Requirement already satisfied: numpy>=1.17.3 in /usr/local/lib/python3.7/dist
-packages (from pandas->watson-machine-learning-client) (1.21.6)
Building wheels for collected packages: ibm-cos-sdk, ibm-cos-sdk-core, ibm-co
s-sdk-s3transfer
  Building wheel for ibm-cos-sdk (setup.py) ... done
  Created wheel for ibm-cos-sdk: filename=ibm cos sdk-2.12.0-py3-none-any.whl
size=73931 sha256=5d002be559f85f7e6ef7c2b32b189820477291215672a0c2ba61eb4944f
b902c
  Stored in directory: /root/.cache/pip/wheels/ec/94/29/2b57327cf00664b661430
4f7958abd29d77ea0e5bbece2ea57
  Building wheel for ibm-cos-sdk-core (setup.py) ... done
  Created wheel for ibm-cos-sdk-core: filename=ibm cos sdk core-2.12.0-py3-no
ne-any.whl size=562962 sha256=898299ee401f79fd8ad67a1115474b84f8bde2c5a4dfc4d
```

Stored in directory: /root/.cache/pip/wheels/64/56/fb/5cd6f4f40406c828a5289 b95b2752a4d142a9afb359244ed8d

9bf146ae727ab2c33

```
Building wheel for ibm-cos-sdk-s3transfer (setup.py) ... done
  Created wheel for ibm-cos-sdk-s3transfer: filename=ibm cos sdk s3transfer-2
.12.0-py3-none-any.whl size=89778 sha256=87cd52eb26669ea97269f11a6119523adac3
c132633f3f52496ee0df122daa56
  Stored in directory: /root/.cache/pip/wheels/57/79/6a/ffe3370ed7ebc00604f9f
76766e1e0348dcdcad2b2e32df9e1
Successfully built ibm-cos-sdk ibm-cos-sdk-core ibm-cos-sdk-s3transfer
Installing collected packages: urllib3, requests, jmespath, ibm-cos-sdk-core,
botocore, s3transfer, ibm-cos-sdk-s3transfer, lomond, ibm-cos-sdk, boto3, wat
son-machine-learning-client
  Attempting uninstall: urllib3
    Found existing installation: urllib3 1.24.3
    Uninstalling urllib3-1.24.3:
      Successfully uninstalled urllib3-1.24.3
  Attempting uninstall: requests
    Found existing installation: requests 2.23.0
    Uninstalling requests-2.23.0:
      Successfully uninstalled requests-2.23.0
Successfully installed boto3-1.26.8 botocore-1.29.8 ibm-cos-sdk-2.12.0 ibm-co
s-sdk-core-2.12.0 ibm-cos-sdk-s3transfer-2.12.0 jmespath-0.10.0 lomond-0.3.3
requests-2.28.1 s3transfer-0.6.0 urllib3-1.26.12 watson-machine-learning-clie
nt-1.0.391
                                                                           In []:
!pip install ibm watson machine learning
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-
wheels/public/simple/
Collecting ibm watson machine learning
  Downloading ibm watson machine learning-1.0.257-py3-none-any.whl (1.8 MB)
                                      | 1.8 \text{ MB } 6.3 \text{ MB/s}
Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-pac
kages (from ibm watson machine learning) (21.3)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-packa
ges (from ibm watson machine learning) (1.26.12)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packa
ges (from ibm watson machine learning) (2022.9.24)
Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.7
/dist-packages (from ibm watson machine learning) (4.13.0)
Requirement already satisfied: lomond in /usr/local/lib/python3.7/dist-packag
es (from ibm watson machine learning) (0.3.3)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-pack
ages (from ibm watson machine learning) (2.28.1)
Collecting ibm-cos-sdk==2.7.*
  Downloading ibm-cos-sdk-2.7.0.tar.gz (51 kB)
                        | 51 kB 902 kB/s
Requirement already satisfied: tabulate in /usr/local/lib/python3.7/dist-pack
ages (from ibm watson machine learning) (0.8.10)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /usr/local/lib/python
3.7/dist-packages (from ibm watson machine learning) (1.3.5)
Collecting ibm-cos-sdk-core==2.7.0
  Downloading ibm-cos-sdk-core-2.7.0.tar.gz (824 kB)
                                    | 824 kB 50.2 MB/s
Collecting ibm-cos-sdk-s3transfer==2.7.0
```

Downloading ibm-cos-sdk-s3transfer-2.7.0.tar.gz (133 kB)

| 133 kB 57.0 MB/s

Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in /usr/local/lib/pytho n3.7/dist-packages (from ibm-cos-sdk==2.7.\*->ibm\_watson\_machine\_learning) (0.10.0)

Collecting docutils<0.16,>=0.10

Downloading docutils-0.15.2-py3-none-any.whl (547 kB)

| 547 kB 48.1 MB/s

Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/local/lib/python3.7/dist-packages (from ibm-cos-sdk-core==2.7.0->ibm-cos-sdk==2.7.\*->ib m watson machine learning) (2.8.2)

Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist-packages (from pandas<1.5.0,>=0.24.2->ibm\_watson\_machine\_learning) (2022.6) Requirement already satisfied: numpy>=1.17.3 in /usr/local/lib/python3.7/dist-packages (from pandas<1.5.0,>=0.24.2->ibm\_watson\_machine\_learning) (1.21.6) Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.7/dist-packages (from python-dateutil<3.0.0,>=2.1->ibm-cos-sdk-core==2.7.0->ibm-cos-sdk==2.7.\*->ibm watson machine learning) (1.15.0)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.7/dist-packages (from requests->ibm\_watson\_machine\_learning) (2.10)

Requirement already satisfied: charset-normalizer<3,>=2 in /usr/local/lib/pyt hon3.7/dist-packages (from requests->ibm\_watson\_machine\_learning) (2.1.1)
Requirement already satisfied: typing-extensions>=3.6.4 in /usr/local/lib/pyt

hon3.7/dist-packages (from importlib-metadata->ibm\_watson\_machine\_learning) (4.1.1)

Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-pac kages (from importlib-metadata->ibm\_watson\_machine\_learning) (3.10.0)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/pyt hon3.7/dist-packages (from packaging->ibm\_watson\_machine\_learning) (3.0.9)
Building wheels for collected packages: ibm-cos-sdk, ibm-cos-sdk-core, ibm-cos-sdk-s3transfer

Building wheel for ibm-cos-sdk (setup.py) ... done

Created wheel for ibm-cos-sdk: filename=ibm\_cos\_sdk-2.7.0-py2.py3-none-any. whl size=72563 sha256=85acfdaf3f232b65d3165854c3cf4651cc494f01dc7874276f11886 3e97fcf8c

Stored in directory: /root/.cache/pip/wheels/47/22/bf/e1154ff0f5de93cc477acd0ca69abfbb8b799c5b28a66b44c2

Building wheel for ibm-cos-sdk-core (setup.py) ... done

Created wheel for ibm-cos-sdk-core: filename=ibm\_cos\_sdk\_core-2.7.0-py2.py3 -none-any.whl size=501013 sha256=dfdd3d79b764119c0dfbc72b7436f7523e387abbbde9 0178014432a4d0dbbd1c

Stored in directory: /root/.cache/pip/wheels/6c/a2/e4/c16d02f809a3ea998e17cfd02c13369281f3d232aaf5902c19

Building wheel for ibm-cos-sdk-s3transfer (setup.py) ... done

Created wheel for ibm-cos-sdk-s3transfer: filename=ibm\_cos\_sdk\_s3transfer-2 .7.0-py2.py3-none-any.whl size=88622 sha256=d873231166da3e2723cdd9e44570258db 0735b07a5f7c505365cbdb0f8cb74be

Stored in directory: /root/.cache/pip/wheels/5f/b7/14/fbe02bc1ef1af890650c7e51743d1c83890852e598d164b9da

Successfully built ibm-cos-sdk ibm-cos-sdk-core ibm-cos-sdk-s3transfer Installing collected packages: docutils, ibm-cos-sdk-core, ibm-cos-sdk-s3tran sfer, ibm-cos-sdk, ibm-watson-machine-learning

Attempting uninstall: docutils

```
Found existing installation: docutils 0.17.1
        Uninstalling docutils-0.17.1:
            Successfully uninstalled docutils-0.17.1
    Attempting uninstall: ibm-cos-sdk-core
        Found existing installation: ibm-cos-sdk-core 2.12.0
        Uninstalling ibm-cos-sdk-core-2.12.0:
            Successfully uninstalled ibm-cos-sdk-core-2.12.0
    Attempting uninstall: ibm-cos-sdk-s3transfer
        Found existing installation: ibm-cos-sdk-s3transfer 2.12.0
        Uninstalling ibm-cos-sdk-s3transfer-2.12.0:
            Successfully uninstalled ibm-cos-sdk-s3transfer-2.12.0
    Attempting uninstall: ibm-cos-sdk
        Found existing installation: ibm-cos-sdk 2.12.0
        Uninstalling ibm-cos-sdk-2.12.0:
            Successfully uninstalled ibm-cos-sdk-2.12.0
Successfully installed docutils-0.15.2 ibm-cos-sdk-2.7.0 ibm-cos-sdk-core-2.7
.0 ibm-cos-sdk-s3transfer-2.7.0 ibm-watson-machine-learning-1.0.257
                                                                                                                                                     In []:
from ibm watson machine learning import APIClient
cloud credentials={
        "url": "https://eu-gb.ml.cloud.ibm.com",
        "apikey": "JjbZw3a4R8S9m1hkHRzyhox5pPW 15Cc39WxdpFYy eA"
}
client=APIClient(cloud credentials)
Python 3.7 and 3.8 frameworks are deprecated and will be removed in a future
release. Use Python 3.9 framework instead.
                                                                                                                                                     In []:
client.spaces.get details()
                                                                                                                                                   Out[]:
{'resources': [{'entity': {'compute': [{'crn': 'crn:v1:bluemix:public:pm-20:e
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                                                                            In []:
space uid='4afa8b26-897b-4309-b86e-5a89d939e183'
space uid
                                                                           Out[]:
'4afa8b26-897b-4309-b86e-5a89d939e183'
                                                                            In [ ]:
client.set.default space(space uid)
                                                                           Out[]:
'SUCCESS'
                                                                            In []:
software space uid=client.software specifications.get uid by name('tensorflow
rt22.1-py3.9')
software space uid
                                                                           Out[]:
'acd9c798-6974-5d2f-a657-ce06e986df4d'
                                                                            In [ ]:
model details=client.repository.store model(model='realtime.tgz',meta props={
    client.repository.ModelMetaNames.NAME: "REALTIME CLOUD",
    client.repository.ModelMetaNames.TYPE: "tensorflow 2.7",
    client.repository.ModelMetaNames.SOFTWARE SPEC UID:software space uid})
                                                                            In []:
model details
                                                                           Out[]:
{'entity': {'hybrid pipeline software specs': [],
```

```
'software spec': {'id': 'acd9c798-6974-5d2f-a657-ce06e986df4d',
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 'system': {'warnings': []}}
                                                                           In []:
model_id=client.repository.get_model id(model details)
model id
                                                                           Out[]:
'1966b2e6-917e-402f-9587-bfaca4a14953'
                                                                           In []:
client.repository.download(model id,'REALTIME CLOUD.tar.gb')
Successfully saved model content to file: 'REALTIME CLOUD.tar.gb'
                                                                           Out[]:
'/content/REALTIME CLOUD.tar.gb'
```