

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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[illegible]

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[illegible]

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```

IMAGE PREPROCESSING

In []:

```

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 =
'relu')),
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 =
'relu')),
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
31/31 [=====] - ETA: 0s - loss: 0.3603 - accuracy: 0
.8873
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.
31/31 [=====] - 85s 3s/step - loss: 0.3603 - accurac
y: 0.8873 - val_loss: 0.2444 - val_accuracy: 0.9480
Epoch 2/10
31/31 [=====] - 73s 2s/step - loss: 0.0758 - accurac
y: 0.9782
Epoch 3/10
31/31 [=====] - 70s 2s/step - loss: 0.0376 - accurac
y: 0.9882
Epoch 4/10
31/31 [=====] - 68s 2s/step - loss: 0.0187 - accurac
y: 0.9951
Epoch 5/10
31/31 [=====] - 70s 2s/step - loss: 0.0172 - accurac
y: 0.9947
Epoch 6/10
31/31 [=====] - 70s 2s/step - loss: 0.0134 - accurac
y: 0.9955
Epoch 7/10
31/31 [=====] - 68s 2s/step - loss: 0.0099 - accurac
y: 0.9967

```

```
Epoch 8/10
31/31 [=====] - 76s 2s/step - loss: 0.0062 - accurac
y: 0.9984
Epoch 9/10
31/31 [=====] - 72s 2s/step - loss: 0.0086 - accurac
y: 0.9972
Epoch 10/10
31/31 [=====] - 76s 2s/step - loss: 0.0024 - accurac
y: 0.9991
```

Out[]:

SAVING THE MODEL

```
#saving the model
model.save('realtime.h5')
```

In []:

TEST THE MODEL

```
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
```

In []:

Out[]:



```
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")
```

In []:

```

detect(img)
1/1 [=====] - 0s 158ms/step
THE PREDICTED LETTER IS  H

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)
1/1 [=====] - 0s 18ms/step
THE PREDICTED LETTER IS  B

```

In []:

tar

```

#converting to tar
!tar -zcvf realtime.tgz realtime.h5
realtime.h5

```

In []:

CLOUD DEPLOYMENT

```

!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)

```

In []:

```
| ██████████ | 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 boto3<1.30.0,>=1.29.8  
    Downloading boto3-1.29.8-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 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->boto3->watson-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=5d002be559f85f7e6ef7c2b32b189820477291215672a0c2ba61eb4944fb902c  
    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  
9bf146ae727ab2c33  
    Stored in directory: /root/.cache/pip/wheels/64/56/fb/5cd6f4f40406c828a5289  
b95b2752a4d142a9afb359244ed8d
```

```
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=87cd52eb26669ea97269f11a6119523adac3c132633f3f52496ee0df122daa56
Stored in directory: /root/.cache/pip/wheels/57/79/6a/ffe3370ed7ebc00604f9f76766e1e0348dcdcad2b2e32df9e1
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, watson-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-cos-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-client-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 MB 6.3 MB/s
Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-packages (from ibm_watson_machine_learning) (21.3)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-packages (from ibm_watson_machine_learning) (1.26.12)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packages (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-packages (from ibm_watson_machine_learning) (0.3.3)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (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-packages (from ibm_watson_machine_learning) (0.8.10)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /usr/local/lib/python3.7/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)
[REDACTED] 133 kB 57.0 MB/s
Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in /usr/local/lib/python3.7/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)
[REDACTED] 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.*->ibm_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/python3.7/dist-packages (from requests->ibm_watson_machine_learning) (2.1.1)
Requirement already satisfied: typing-extensions>=3.6.4 in /usr/local/lib/python3.7/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-packages (from importlib-metadata->ibm_watson_machine_learning) (3.10.0)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/python3.7/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=85acfdaf3f232b65d3165854c3cf4651cc494f01dc7874276f118863e97fcf8c
  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=dfdd3d79b764119c0dfbc72b7436f7523e387abbbde90178014432a4d0dbbd1c
  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=d873231166da3e2723cdd9e44570258db0735b07a5f7c505365cbdb0f8cb74be
  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-s3transfer, 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:eu-gb:a/baf2fc8d7ee845f0b6f7ac004c72284e:66c03ce9-a400-4357-8963-42f65995d1d6:
',
    'guid': '66c03ce9-a400-4357-8963-42f65995d1d6',
    'name': 'Watson Machine Learning-oy',
    'type': 'machine_learning'}]},
  'description': '',
  'name': 'realtime_deploy',
  'scope': {'bss_account_id': 'baf2fc8d7ee845f0b6f7ac004c72284e'},
  'stage': {'production': False},
  'status': {'state': 'active'},
  'storage': {'properties': {'bucket_name': 'ea8ff2b0-81e6-4923-aa78-fe4cbe1dcd18',
    'bucket_region': 'eu-gb-standard',
    'credentials': {'admin': {'access_key_id': 'e999e8ed9ad2445ca88ae10af451d567',
    'api_key': 'fkP3B06ykhgejJJwiaTEmtxAjRznQ1cnQoFwx6ZYhi2q',
    'secret_access_key': '3148c14f7dfbe93c803cd44ab7906253620836f95549b74f',
    'service_id': 'ServiceId-a8d83975-cb8a-45b6-8a0b-2ef8c5e46143'}},

```

```

        'editor': {'access_key_id': 'f024630ce04d42339708fac182f0ab39',
                    'api_key': 'mcCE4FeS7xgQJkxKtxFFqWepQy8KM4G1SCVBcsN-fwUj',
                    'resource_key_crn': 'crn:v1:bluemix:public:cloud-object-storage:global:a/baf2fc8d7ee845f0b6f7ac004c72284e:b3296065-0e0c-41e2-94ef-9ce2d0f52335::',
                    'secret_access_key': '7153814f9855ae7da467ce49bbfcfbac82758402be72ec
b',
                    'service_id': 'ServiceId-c681d0d0-1da1-4b75-a76e-966b2d01ac94'},
        'viewer': {'access_key_id': '3a85fecc33094296a617c4fb8671a6a8',
                    'api_key': 'h7Q07ClgcxsXIiQxTxqrz0810f0Rsup70bHelCsAsueb',
                    'resource_key_crn': 'crn:v1:bluemix:public:cloud-object-storage:global:a/baf2fc8d7ee845f0b6f7ac004c72284e:b3296065-0e0c-41e2-94ef-9ce2d0f52335::',
                    'secret_access_key': '402f3531b91713996a937d5d03b47f6dc8f1392371275b8
a',
                    'service_id': 'ServiceId-f4cdb334-b0d8-4f02-9cff-ffb579be7ad9'}},
        'endpoint_url': 'https://s3.eu-gb.cloud-object-storage.appdomain.cloud'
    },
    'guid': 'b3296065-0e0c-41e2-94ef-9ce2d0f52335',
    'resource_crn': 'crn:v1:bluemix:public:cloud-object-storage:global:a/baf2fc8d7ee845f0b6f7ac004c72284e:b3296065-0e0c-41e2-94ef-9ce2d0f52335::',
    'type': 'bmcos_object_storage'},
    'metadata': {'created_at': '2022-11-12T08:02:21.536Z',
                  'creator_id': 'IBMid-663003YGW8',
                  'id': '4afa8b26-897b-4309-b86e-5a89d939e183',
                  'updated_at': '2022-11-12T08:02:35.769Z',
                  'url': '/v2/spaces/4afa8b26-897b-4309-b86e-5a89d939e183'}}}]

```

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',  
  'name': 'tensorflow_rt22.1-py3.9'},  
  'type': 'tensorflow_2.7'},  
'metadata': {'created_at': '2022-11-12T08:27:11.689Z',  
  'id': '1966b2e6-917e-402f-9587-bfaca4a14953',  
  'modified_at': '2022-11-12T08:27:17.972Z',  
  'name': 'REALTIME_CLOUD',  
  'owner': 'IBMid-663003YGW8',  
  'resource_key': '46bcf134-f27f-4620-a04e-8b9798c79b9a',  
  'space_id': '4afa8b26-897b-4309-b86e-5a89d939e183'},  
'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'
```