```
1  !pip install watson-machine-learning-client
```

Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.de
v/colab-wheels/public/simple/)
Collecting watson-machine-learning-client
  Downloading watson_machine_learning_client-1.0.391-py3-none-any.whl (538 k
B)
     |████████████████████████████████| 538 kB 5.4 MB/s
Collecting ibm-cos-sdk
  Downloading ibm-cos-sdk-2.12.0.tar.gz (55 kB)
     |████████████████████████████████| 55 kB 4.3 MB/s
Collecting lomond
  Downloading lomond-0.3.3-py2.py3-none-any.whl (35 kB)
Requirement already satisfied: pandas in /usr/local/lib/python3.7/dist-packa
ges (from watson-machine-learning-client) (1.3.5)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-pack
ages (from watson-machine-learning-client) (1.24.3)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-pac
kages (from watson-machine-learning-client) (2.23.0)
Requirement already satisfied: tabulate in /usr/local/lib/python3.7/dist-pac
kages (from watson-machine-learning-client) (0.8.10)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-pack
ages (from watson-machine-learning-client) (2022.9.24)
Collecting boto3
  Downloading boto3-1.26.8-py3-none-any.whl (132 kB)
     |████████████████████████████████| 132 kB 48.3 MB/s
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-package
s (from watson-machine-learning-client) (4.64.1)
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Collecting botocore<1.30.0,>=1.29.8
  Downloading botocore-1.29.8-py3-none-any.whl (9.9 MB)
     |████████████████████████████████| 9.9 MB 46.6 MB/s
Collecting s3transfer<0.7.0,>=0.6.0
  Downloading s3transfer-0.6.0-py3-none-any.whl (79 kB)
     |████████████████████████████████| 79 kB 8.5 MB/s
Collecting urllib3
  Downloading urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
     |████████████████████████████████| 140 kB 46.6 MB/s
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/local/li
b/python3.7/dist-packages (from botocore<1.30.0,>=1.29.8->boto3->watson-mach
ine-learning-client) (2.8.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.7/dist-pac
kages (from python-dateutil<3.0.0,>=2.1->botocore<1.30.0,>=1.29.8->boto3->wa
tson-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 63.5 MB/s
Collecting ibm-cos-sdk-s3transfer==2.12.0
  Downloading ibm-cos-sdk-s3transfer-2.12.0.tar.gz (135 kB)
     |████████████████████████████████| 135 kB 53.6 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 1.3 MB/s
Requirement already satisfied: charset-normalizer<3,>=2 in /usr/local/lib/py
thon3.7/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: numpy>=1.17.3 in /usr/local/lib/python3.7/dis
t-packages (from pandas->watson-machine-learning-client) (1.21.6)
Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist
-packages (from pandas->watson-machine-learning-client) (2022.6)
Building wheels for collected packages: ibm-cos-sdk, ibm-cos-sdk-core, ibm-c
os-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.wh
l size=73931 sha256=fd99cd811c8163350fe88c63c9b36c5f7ee6eefbff4d2e1f3c72306c
bc46812b
  Stored in directory: /root/.cache/pip/wheels/ec/94/29/2b57327cf00664b66143
04f7958abd29d77ea0e5bbece2ea57
  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-n
one-any.whl size=562962 sha256=325d750ae21cb064b3c1ddee6b4003e5d0aa540903cc7
3732a0d62078f5f1510
  Stored in directory: /root/.cache/pip/wheels/64/56/fb/5cd6f4f40406c828a528
9b95b2752a4d142a9afb359244ed8d
  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=5e3968ec5c9cb9a74bd702feed22bc51d1
36fd2cc6a983cdf758b97e7df5d637
  Stored in directory: /root/.cache/pip/wheels/57/79/6a/ffe3370ed7ebc00604f9
f76766e1e0348dcdcad2b2e32df9e1
Successfully built ibm-cos-sdk ibm-cos-sdk-core ibm-cos-sdk-s3transfer
Installing collected packages: urllib3, requests, jmespath, ibm-cos-sdk-cor
e, 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-c
os-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-c
lient-1.0.391

```
1  !pip install ibm_watson_machine_learning
```

Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.de
v/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 5.3 MB/s
Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-pa
ckages (from ibm_watson_machine_learning) (21.3)
Requirement already satisfied: lomond in /usr/local/lib/python3.7/dist-packa
ges (from ibm_watson_machine_learning) (0.3.3)
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-pack
ages (from ibm_watson_machine_learning) (2022.9.24)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.7/dist-pack
ages (from ibm_watson_machine_learning) (1.26.12)
Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.
7/dist-packages (from ibm_watson_machine_learning) (4.13.0)
Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-pac
kages (from ibm_watson_machine_learning) (2.28.1)
Requirement already satisfied: tabulate in /usr/local/lib/python3.7/dist-pac
kages (from ibm_watson_machine_learning) (0.8.10)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /usr/local/lib/pytho
n3.7/dist-packages (from ibm_watson_machine_learning) (1.3.5)
Collecting ibm-cos-sdk==2.7.*
  Downloading ibm-cos-sdk-2.7.0.tar.gz (51 kB)
       |████████████████████████████████| 51 kB 775 kB/s
Collecting ibm-cos-sdk-core==2.7.0
  Downloading ibm-cos-sdk-core-2.7.0.tar.gz (824 kB)
       |████████████████████████████████| 824 kB 46.5 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/pyth
on3.7/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 46.5 MB/s
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/local/li
b/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/dis
t-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-pac
kages (from python-dateutil<3.0.0,>=2.1->ibm-cos-sdk-core==2.7.0->ibm-cos-sd
k==2.7.*->ibm_watson_machine_learning) (1.15.0)
Requirement already satisfied: charset-normalizer<3,>=2 in /usr/local/lib/py
thon3.7/dist-packages (from requests->ibm_watson_machine_learning) (2.1.1)
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: typing-extensions>=3.6.4 in /usr/local/lib/py
thon3.7/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-pa
ckages (from importlib-metadata->ibm_watson_machine_learning) (3.10.0)

```
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/py
thon3.7/dist-packages (from packaging->ibm_watson_machine_learning) (3.0.9)
Building wheels for collected packages: ibm-cos-sdk, ibm-cos-sdk-core, ibm-c
os-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-an
y.whl size=72563 sha256=8fa8a716a7ce1699fa2be56aef84a4b72ab53b9a4a019366a9a8
1e1067979ca0
  Stored in directory: /root/.cache/pip/wheels/47/22/bf/e1154ff0f5de93cc477a
cd0ca69abfbb8b799c5b28a66b44c2
  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.py
3-none-any.whl size=501013 sha256=e8e33ba87f1a77d8a7965ccf60db593d60ace85d61
e0c407002bcf1401530de6
  Stored in directory: /root/.cache/pip/wheels/6c/a2/e4/c16d02f809a3ea998e17
cfd02c13369281f3d232aaf5902c19
  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=99f90375ad35e66615972b8e85ff5a5
d518371450f7d5f18074b24f7c3535433
  Stored in directory: /root/.cache/pip/wheels/5f/b7/14/fbe02bc1ef1af890650c
7e51743d1c83890852e598d164b9da
Successfully built ibm-cos-sdk ibm-cos-sdk-core ibm-cos-sdk-s3transfer
Installing collected packages: docutils, ibm-cos-sdk-core, ibm-cos-sdk-s3tra
nsfer, 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 [3]:

```python
from ibm_watson_machine_learning import APIClient

wml_credentials={
    "url":"https://us-south.ml.cloud.ibm.com",
    "apikey":"60ep5_yBXf9mLpygaC5hNazV0gFBod4AHub1sxrGbS6w"
}

client = APIClient(wml_credentials)
client
```

Python 3.7 and 3.8 frameworks are deprecated and will be removed in a future release. Use Python 3.9 framework instead.

Out[3]:

<ibm_watson_machine_learning.client.APIClient at 0x7f4519d64f10>

```
1  client.spaces.get_details()
```

{'resources': [{'entity': {'compute': [{'crn': 'crn:v1:bluemix:public:pm-20:
us-south:a/6d5f4f848d3d47fab0d0a11c07ba5ecc:215cf2c3-d68b-49d5-b7e4-3b28b522
6247::',
      'guid': '215cf2c3-d68b-49d5-b7e4-3b28b5226247',
      'name': 'Watson Machine Learning-f9',
      'type': 'machine_learning'}],
    'description': '',
    'name': 'Gesture',
    'scope': {'bss_account_id': '6d5f4f848d3d47fab0d0a11c07ba5ecc'},
    'stage': {'production': False},
    'status': {'state': 'active'},
    'storage': {'properties': {'bucket_name': '10464344-5757-4c38-9942-38d2e
a6e9864',
      'bucket_region': 'us-south',
      'credentials': {'admin': {'access_key_id': 'ac92b86cafec49389cf955ba71
2a22a1',
        'api_key': 'rTru1ieUj5Qb_107tPAG7RAu08oak91dM3G7tvSYEdzF',
        'secret_access_key': '64ae8b74ab4660373c5342a15278c00051f81e7e0efd92
63',
        'service_id': 'ServiceId-62a66813-7608-46c1-bac3-bfb2701d8e07'},
       'editor': {'access_key_id': 'b2adba240c3647cdab13ad1d8618c611',
        'api_key': 'iqOeTz9R5lc_rY_LSwufSDdKjhbnElZlh8M0DutEvf4v',
        'resource_key_crn': 'crn:v1:bluemix:public:cloud-object-storage:glob
al:a/6d5f4f848d3d47fab0d0a11c07ba5ecc:861bae2a-147c-42be-aeea-be4c7da2462
a::',
        'secret_access_key': 'd52d861a1473023d3d9cc9661ebfd4b8f6c45d5aaebb8d
09',
        'service_id': 'ServiceId-fda2e439-68c4-41b9-b100-d58da1f68ce1'},
       'viewer': {'access_key_id': '93ea0f9b3d904d94aa8e9bb6dc4fc39e',
        'api_key': '5Hd5WOqgL5gHM2ayPeVVN0k0ztNlZlyaE0hx0iEhHw20',
        'resource_key_crn': 'crn:v1:bluemix:public:cloud-object-storage:glob
al:a/6d5f4f848d3d47fab0d0a11c07ba5ecc:861bae2a-147c-42be-aeea-be4c7da2462
a::',
        'secret_access_key': '00fcc4152eabd136ab97731e4b0f9fcfd76d035a0d11ea
b5',
        'service_id': 'ServiceId-4a27cccd-9af7-4c89-a1b6-a0545ec014de'}},
      'endpoint_url': 'https://s3.us-south.cloud-object-storage.appdomain.cl
oud',
      'guid': '861bae2a-147c-42be-aeea-be4c7da2462a',
      'resource_crn': 'crn:v1:bluemix:public:cloud-object-storage:global:a/6
d5f4f848d3d47fab0d0a11c07ba5ecc:861bae2a-147c-42be-aeea-be4c7da2462a::'},
     'type': 'bmcos_object_storage'}},
  'metadata': {'created_at': '2022-11-01T14:28:42.149Z',
    'creator_id': 'IBMid-665002HY57',
    'id': 'db6020f5-fa05-48be-8006-5c34793f7acb',
    'updated_at': '2022-11-01T14:29:04.752Z',
    'url': '/v2/spaces/db6020f5-fa05-48be-8006-5c34793f7acb'}}]}

In [6]:

```python
def guid_space_name(client,Gesture):
    space = client.spaces.get_details()
    return(next(item for item in space['resources'] if item['entity']['name']==Gesture)[
```

In [7]:

```python
space_uid = guid_space_name(client,'Gesture')
space_uid
```

Out[7]:

```
'db6020f5-fa05-48be-8006-5c34793f7acb'
```

In [8]:

```python
client.set.default_space(space_uid)
```

Out[8]:

```
'SUCCESS'
```

```
1  client.software_specifications.list()
```

```
--------------------------------   ------------------------------------   ----
NAME                               ASSET_ID                               TYPE
default_py3.6                      0062b8c9-8b7d-44a0-a9b9-46c416adcbd9    base
kernel-spark3.2-scala2.12          020d69ce-7ac1-5e68-ac1a-31189867356a   base
pytorch-onnx_1.3-py3.7-edt         069ea134-3346-5748-b513-49120e15d288   base
scikit-learn_0.20-py3.6            09c5a1d0-9c1e-4473-a344-eb7b665ff687   base
spark-mllib_3.0-scala_2.12         09f4cff0-90a7-5899-b9ed-1ef348aebdee   base
pytorch-onnx_rt22.1-py3.9          0b848dd4-e681-5599-be41-b5f6fccc6471   base
ai-function_0.1-py3.6              0cdb0f1e-5376-4f4d-92dd-da3b69aa9bda   base
shiny-r3.6                         0e6e79df-875e-4f24-8ae9-62dcc2148306   base
tensorflow_2.4-py3.7-horovod       1092590a-307d-563d-9b62-4eb7d64b3f22   base
pytorch_1.1-py3.6                  10ac12d6-6b30-4ccd-8392-3e922c096a92   base
tensorflow_1.15-py3.6-ddl          111e41b3-de2d-5422-a4d6-bf776828c4b7   base
autoai-kb_rt22.2-py3.10            125b6d9a-5b1f-5e8d-972a-b251688ccf40   base
runtime-22.1-py3.9                 12b83a17-24d8-5082-900f-0ab31fbfd3cb   base
scikit-learn_0.22-py3.6            154010fa-5b3b-4ac1-82af-4d5ee5abbc85   base
default_r3.6                       1b70aec3-ab34-4b87-8aa0-a4a3c8296a36   base
pytorch-onnx_1.3-py3.6             1bc6029a-cc97-56da-b8e0-39c3880dbbe7   base
kernel-spark3.3-r3.6               1c9e5454-f216-59dd-a20e-474a5cdf5988   base
pytorch-onnx_rt22.1-py3.9-edt      1d362186-7ad5-5b59-8b6c-9d0880bde37f   base
tensorflow_2.1-py3.6               1eb25b84-d6ed-5dde-b6a5-3fbdf1665666   base
spark-mllib_3.2                    20047f72-0a98-58c7-9ff5-a77b012eb8f5   base
tensorflow_2.4-py3.8-horovod       217c16f6-178f-56bf-824a-b19f20564c49   base
runtime-22.1-py3.9-cuda            26215f05-08c3-5a41-a1b0-da66306ce658   base
do_py3.8                           295addb5-9ef9-547e-9bf4-92ae3563e720   base
autoai-ts_3.8-py3.8                2aa0c932-798f-5ae9-abd6-15e0c2402fb5   base
tensorflow_1.15-py3.6              2b73a275-7cbf-420b-a912-eae7f436e0bc   base
kernel-spark3.3-py3.9              2b7961e2-e3b1-5a8c-a491-482c8368839a   base
pytorch_1.2-py3.6                  2c8ef57d-2687-4b7d-acce-01f94976dac1   base
spark-mllib_2.3                    2e51f700-bca0-4b0d-88dc-5c6791338875   base
pytorch-onnx_1.1-py3.6-edt         32983cea-3f32-4400-8965-dde874a8d67e   base
spark-mllib_3.0-py37               36507ebe-8770-55ba-ab2a-eafe787600e9   base
spark-mllib_2.4                    390d21f8-e58b-4fac-9c55-d7ceda621326   base
autoai-ts_rt22.2-py3.10            396b2e83-0953-5b86-9a55-7ce1628a406f   base
xgboost_0.82-py3.6                 39e31acd-5f30-41dc-ae44-60233c80306e   base
pytorch-onnx_1.2-py3.6-edt         40589d0e-7019-4e28-8daa-fb03b6f4fe12   base
pytorch-onnx_rt22.2-py3.10         40e73f55-783a-5535-b3fa-0c8b94291431   base
default_r36py38                    41c247d3-45f8-5a71-b065-8580229facf0   base
autoai-ts_rt22.1-py3.9             4269d26e-07ba-5d40-8f66-2d495b0c71f7   base
autoai-obm_3.0                     42b92e18-d9ab-567f-988a-4240ba1ed5f7   base
pmml-3.0_4.3                       493bcb95-16f1-5bc5-bee8-81b8af80e9c7   base
spark-mllib_2.4-r_3.6              49403dff-92e9-4c87-a3d7-a42d0021c095   base
xgboost_0.90-py3.6                 4ff8d6c2-1343-4c18-85e1-689c965304d3   base
pytorch-onnx_1.1-py3.6             50f95b2a-bc16-43bb-bc94-b0bed208c60b   base
autoai-ts_3.9-py3.8                52c57136-80fa-572e-8728-a5e7cbb42cde   base
spark-mllib_2.4-scala_2.11         55a70f99-7320-4be5-9fb9-9edb5a443af5   base
spark-mllib_3.0                    5c1b0ca2-4977-5c2e-9439-ffd44ea8ffe9   base
autoai-obm_2.0                     5c2e37fa-80b8-5e77-840f-d912469614ee   base
spss-modeler_18.1                  5c3cad7e-507f-4b2a-a9a3-ab53a21dee8b   base
cuda-py3.8                         5d3232bf-c86b-5df4-a2cd-7bb870a1cd4e   base
autoai-kb_3.1-py3.7                632d4b22-10aa-5180-88f0-f52dfb6444d7   base
pytorch-onnx_1.7-py3.8             634d3cdc-b562-5bf9-a2d4-ea90a478456b   base
--------------------------------   ------------------------------------   ----
```

Note: Only first 50 records were displayed. To display more use 'limit' parameter.

In [10]:

```
1  software_space_uid = client.software_specifications.get_uid_by_name('tensorflow_rt22.1-
2  software_space_uid
```

Out[10]:

'acd9c798-6974-5d2f-a657-ce06e986df4d'

In [12]:

```
1  model_details = client.repository.store_model(model='hand-gesture.tgz',meta_props={
2      client.repository.ModelMetaNames.NAME:"Model Training",
3      client.repository.ModelMetaNames.TYPE:"tensorflow_2.7",
4      client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_space_uid
5  })
```

In [13]:

```
1  model_details
```

Out[13]:

```
{'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': '2022-11-14T09:00:12.151Z',
  'id': '1408ff7a-08cb-436b-8523-9854e0153625',
  'modified_at': '2022-11-14T09:00:18.305Z',
  'name': 'Model Training',
  'owner': 'IBMid-665002HY57',
  'resource_key': '52ed3e7a-19ed-422a-88d2-b727f8ceca73',
  'space_id': 'db6020f5-fa05-48be-8006-5c34793f7acb'},
 'system': {'warnings': []}}
```

In [14]:

```
1  model_id = client.repository.get_model_id(model_details)
2  model_id
```

Out[14]:

'1408ff7a-08cb-436b-8523-9854e0153625'

In [16]:

```
1  client.repository.download(model_id,'gesture.tar.gb')
```

Successfully saved model content to file: 'gesture.tar.gb'

Out[16]:

'/content/gesture.tar.gb'