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Format

Code

In [25]: !tar -zcvf image-classification-model_new.tgz gesture.h5

gesture.h5

In [26]: ls -l

dataset/
gesture.h5
image-classification-model_new.tgz

In [27]: !pip install watson-machine-learning-client --upgrade

Collecting watson-machine-learning-client
Downloading watson_machine_learning_client-1.0.391-py3-none-any.whl (538 kB)
[REDACTED] 538 kB 9.7 MB/s eta 0:00:01
Requirement already satisfied: certifi in /opt/conda/envs/Python-3.9/lib/python3.9/site-pack
ages (from watson-machine-learning-client) (2022.9.24)
Requirement already satisfied: tqdm in /opt/conda/envs/Python-3.9/lib/python3.9/site-packag
es (from watson-machine-learning-client) (4.62.3)
Requirement already satisfied: boto3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packag
es (from watson-machine-learning-client) (1.18.21)
Requirement already satisfied: urllib3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-pack
ages (from watson-machine-learning-client) (1.26.7)

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Requirement already satisfied: ibm-cos-sdk-core==2.11.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm-cos-sdk->watson-machine-learning-client) (2.11.0)
Requirement already satisfied: charset-normalizer==2.0.0 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from requests->watson-machine-learning-client) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from requests->watson-machine-learning-client) (3.3)
Requirement already satisfied: pytz>=2017.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from pandas->watson-machine-learning-client) (2021.3)
Requirement already satisfied: numpy>=1.17.3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from pandas->watson-machine-learning-client) (1.20.3)
Installing collected packages: watson-machine-learning-client
Successfully installed watson-machine-learning-client-1.0.391

In [28]:

from ibm_watson_machine_learning import APIClient
wml_credentials = {
 "url": "https://us-south.ml.cloud.ibm.com",
 "apikey": "00QFbTkSta9PaJo2rUtKC-URLxSvPn8A_9cH60GE6XQP"
}
client = APIClient(wml_credentials)

In [29]:

client = APIClient(wml_credentials)

In [30]:

client

Out[30]: <ibm_watson_machine_learning.client.APIClient at 0x7fb7587dbb50>

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```
wml_credentials = {
    "url": "https://us-south.ml.cloud.ibm.com",
    "apikey": "00QFbTkSta9Pajo2rUtKC-URLxSvPn8A_9cH60GE6XQP"
}
client = APIClient(wml_credentials)

In [29]: client = APIClient(wml_credentials)

In [30]: client

Out[30]: <ibm_watson_machine_learning.client.APIClient at 0x7fb7587dbb50>

In [32]: client.spaces.list()

Note: 'limit' is not provided. Only first 50 records will be displayed if the number of records exceed 50

-----
ID                                     NAME                               CREATED
a76bf5bd-8553-45c8-bff9-ac13291f3e65  Gesture based tool                2022-11-01T09:34:21.631Z
-----

In [33]: space_id = "a76bf5bd-8553-45c8-bff9-ac13291f3e65"

In [34]: client.set.default_space(space_id)

Out[34]: 'Success'
```

Data

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Code

Note: 'limit' is not provided. Only first 50 records will be displayed if the number of records exceed 50

ID	NAME	CREATED
a76bf5bd-8553-45c8-bff9-ac13291f3e65	Gesture based tool	2022-11-01T09:34:21.631Z

In [33]: space_id = "a76bf5bd-8553-45c8-bff9-ac13291f3e65"

In [34]: client.set.default_space(space_id)

Out[34]: 'SUCCESS'

In [35]: 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

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```
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-7bb870alcd4e  base
runtime-22.2-py3.10-xc 5e8cddff-db4a-5a6a-b8aa-2d4af9864dab  base
autoai-kb_3.1-py3.7    632d4b22-10aa-5180-88f0-f52dfb6444d7  base
-----
Note: Only first 50 records were displayed. To display more use 'limit' parameter.

In [36]: software_space_uid=client.software_specifications.get_uid_by_name('tensorflow_rt22.1-py3.9')

In [37]: software_space_uid
Out[37]: 'acd9c798-6974-5d2f-a657-ce06e986df4d'

In [40]: software_spec_uid = client.software_specifications.get_uid_by_name("tensorflow_rt22.1-py3.9")
software_spec_uid
Out[40]: 'acd9c798-6974-5d2f-a657-ce06e986df4d'

In [41]: model_details = client.repository.store_model(model= 'image-classification-model_new.tgz',meta_f
client.repository.ModelMetaNames.NAME:"CNN-model",
client.repository.ModelMetaNames.TYPE:"tensorflow_rt22.1",
client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_spec_uid)
model_id = client.repository.get_model_uid(model_details)|
```

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In [41]:

model_details = client.repository.store_model(model= 'image-classification-model_new.tgz',meta_p
client.repository.ModelMetaNames.NAME:"CNN-model",
client.repository.ModelMetaNames.TYPE:"tensorflow_rt22.1",
client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_spec_uid}
)
model_id = client.repository.get_model_uid(model_details)

This method is deprecated, please use get_model_id()

/opt/conda/envs/Python-3.9/lib/python3.9/site-packages/ibm_watson_machine_learning/repositor
y.py:1453: UserWarning: This method is deprecated, please use get_model_id()
warn("This method is deprecated, please use get_model_id()")

In [42]:

model_id

Out[42]: '3df034e5-e21a-4290-99c1-82f43966328d'

In [43]:

model_id = client.repository.get_model_id(model_details)

In [44]:

model_id

Out[44]: '3df034e5-e21a-4290-99c1-82f43966328d'

In [45]:

client.repository.download(model_id, 'my_model_1.tar.gz')

Data

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<input type="checkbox"/>	A Gesture-based Tool for Sterile Browsing of Radiology 1	21 hours ago		Admin	<div>MS</div>

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New deployment space

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Model Building.ipynb

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