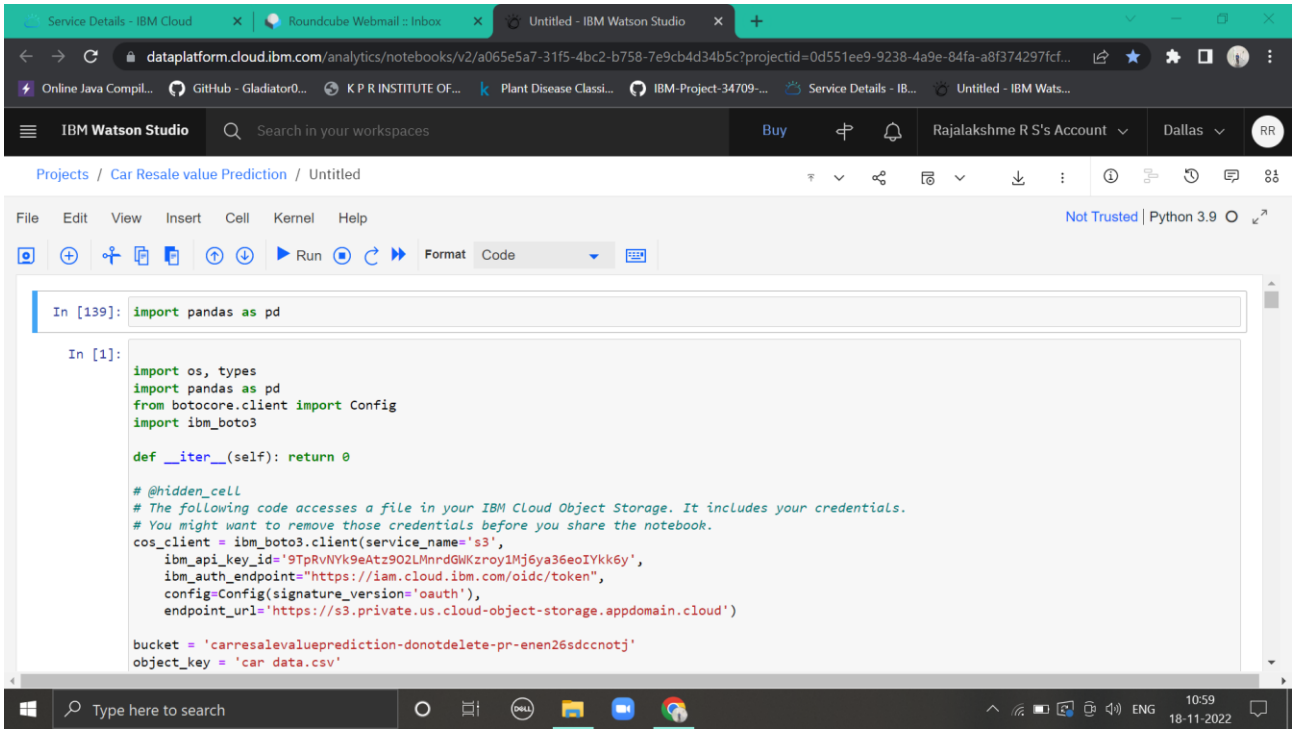
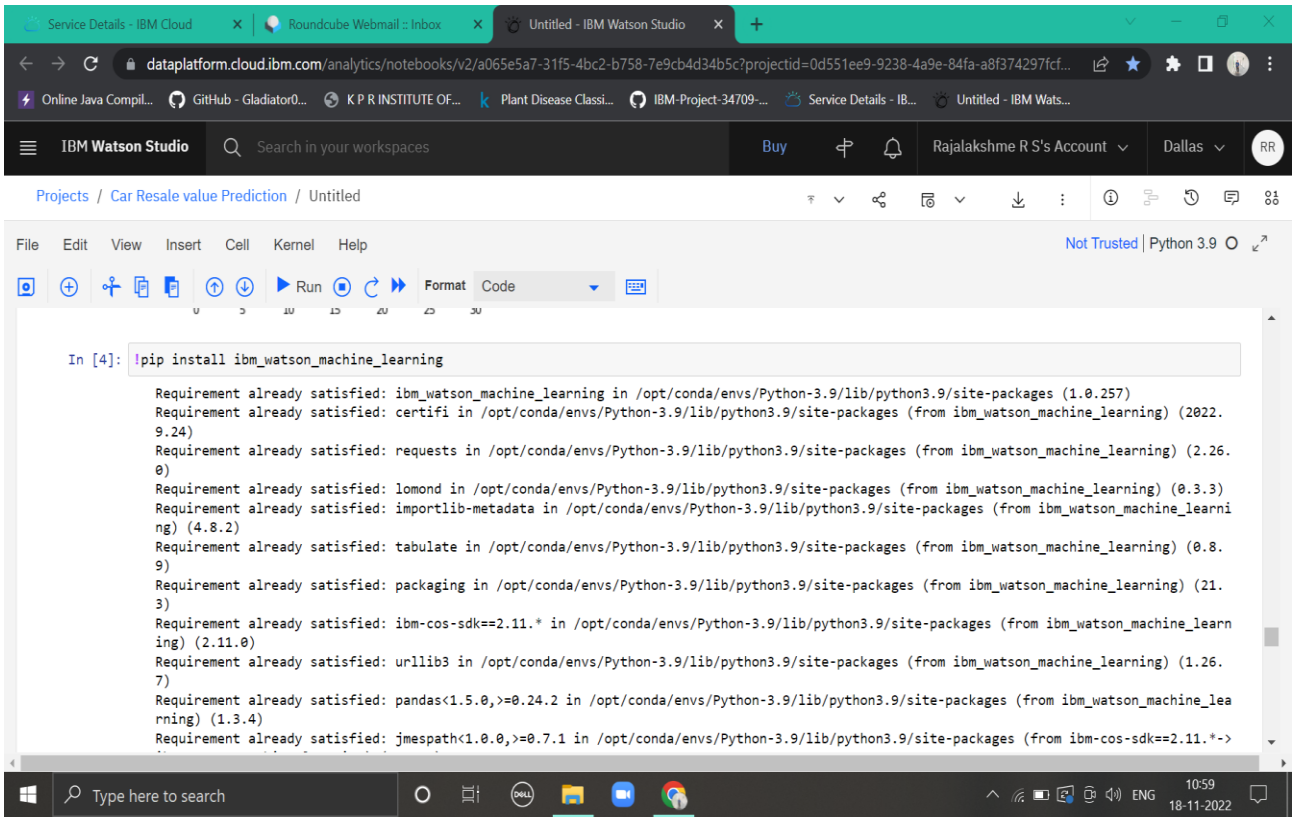
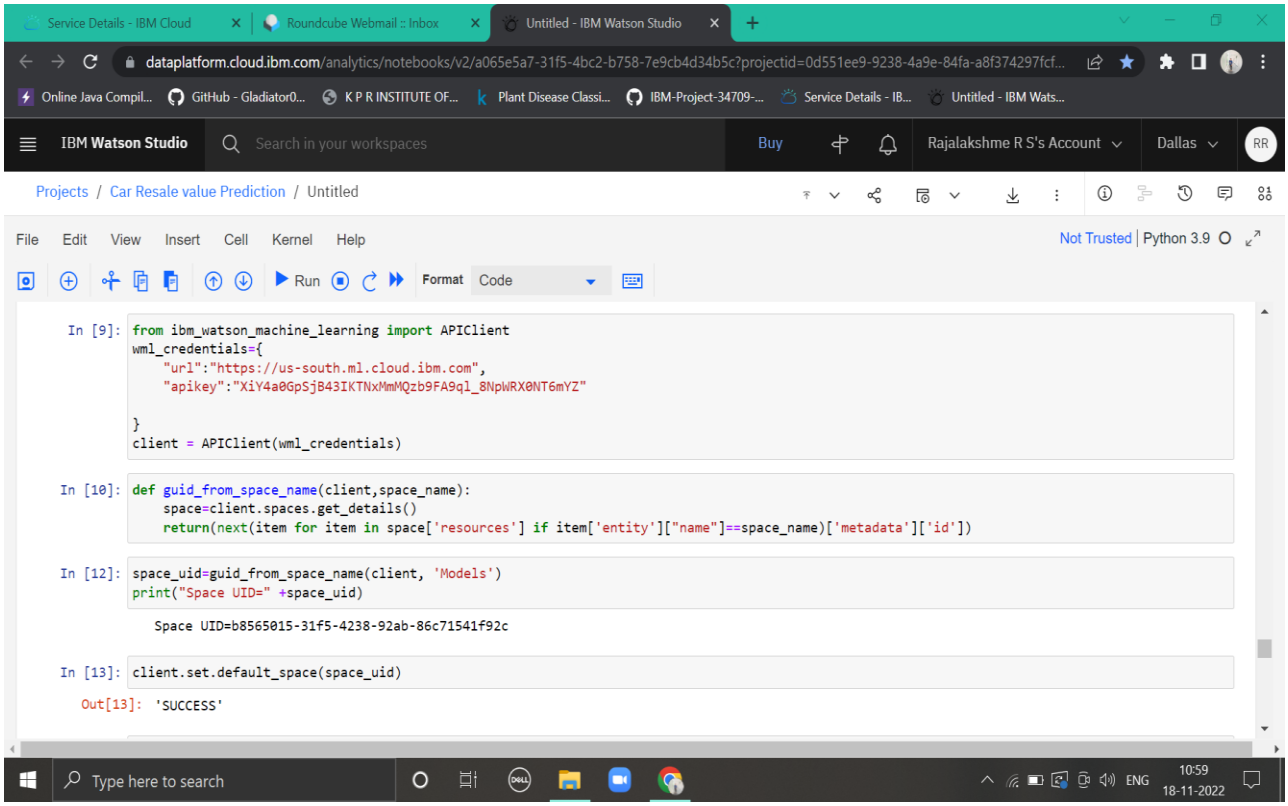
TRAINING THE MODEL IN IBM WATSON STUDIO



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In [9]:
from ibm_watson_machine_learning import APIClient
wml_credentials={
"url":"https://us-south.ml.cloud.ibm.com",
"apikey":"XiY4a0GpSjB43IKTNxMmMQzb9FA9ql_8NpWRX0NT6mYZ"
}
client = APIClient(wml_credentials)
In [10]:
def guid_from_space_name(client,space_name):
space=client.spaces.get_details()
return(next(item for item in space['resources'] if item['entity']["name"]==space_name)['metadata']['id'])
In [12]:
space_uid=guid_from_space_name(client, 'Models')
print("Space UID=" +space_uid)
Space UID=b8565015-31f5-4238-92ab-86c71541f92c
In [13]:
client.set.default_space(space_uid)
Out[13]: 'SUCCESS'
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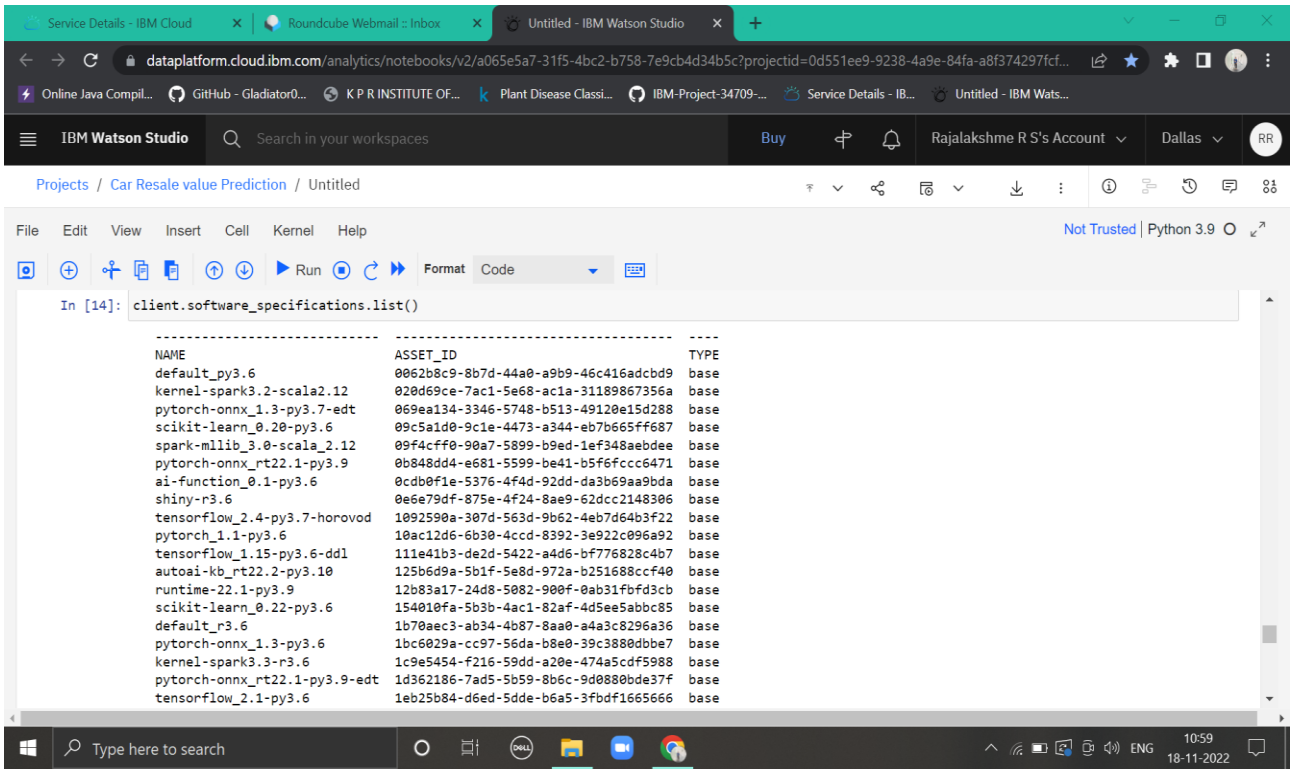
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In [14]:
client.software_specifications.list()
NAME ASSET_ID TYPE
default_py3.6 0062b8c9-8b7d-44a0-a9b9-46c416adcbd9 base
kernel-spark3.2-scala2.12 020d69ce-7ac1-5e68-ac1a-31189867356a base
pytorch-onnx_1.3-py3.7-edt 069ea134-3346-5748-b513-49120e15d288 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
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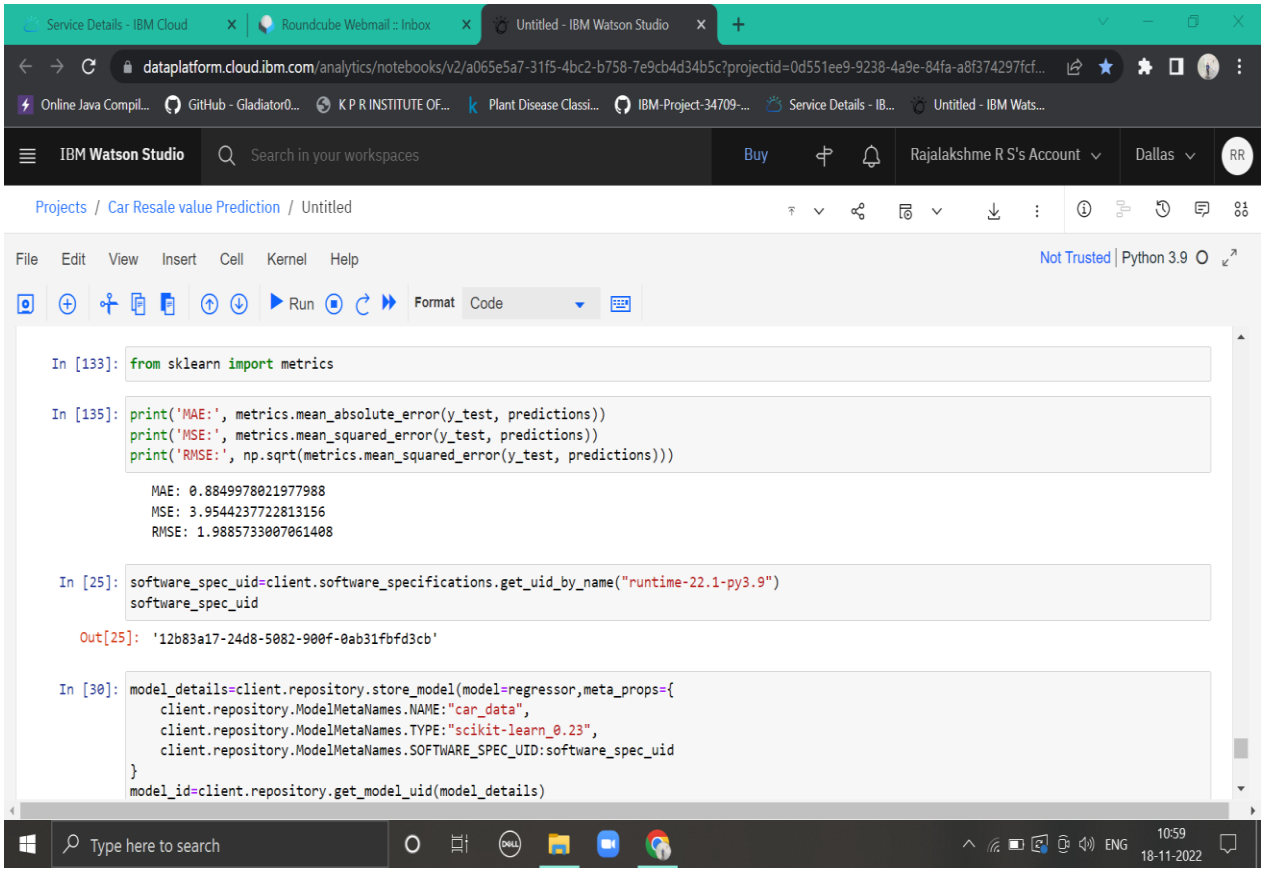
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In [133]: from sklearn import metrics
In [135]: print('MAE:', metrics.mean_absolute_error(y_test, predictions))
print('MSE:', metrics.mean_squared_error(y_test, predictions))
print('RMSE:', np.sqrt(metrics.mean_squared_error(y_test, predictions)))
MAE: 0.8849978021977988
MSE: 3.9544237722813156
RMSE: 1.9885733007061408
In [25]: software_spec_uid=client.software_specifications.get_uid_by_name("runtime-22.1-py3.9")
software_spec_uid
Out[25]: '12b83a17-24d8-5082-900f-0ab31fbfd3cb'
In [30]: model_details=client.repository.store_model(model=regressor,meta_props={
client.repository.ModelMetaNames.NAME:"car_data",
client.repository.ModelMetaNames.TYPE:"scikit-learn_0.23",
client.repository.ModelMetaNames.SOFTWARE_SPEC_UID:software_spec_uid
}
model_id=client.repository.get_model_uid(model_details)
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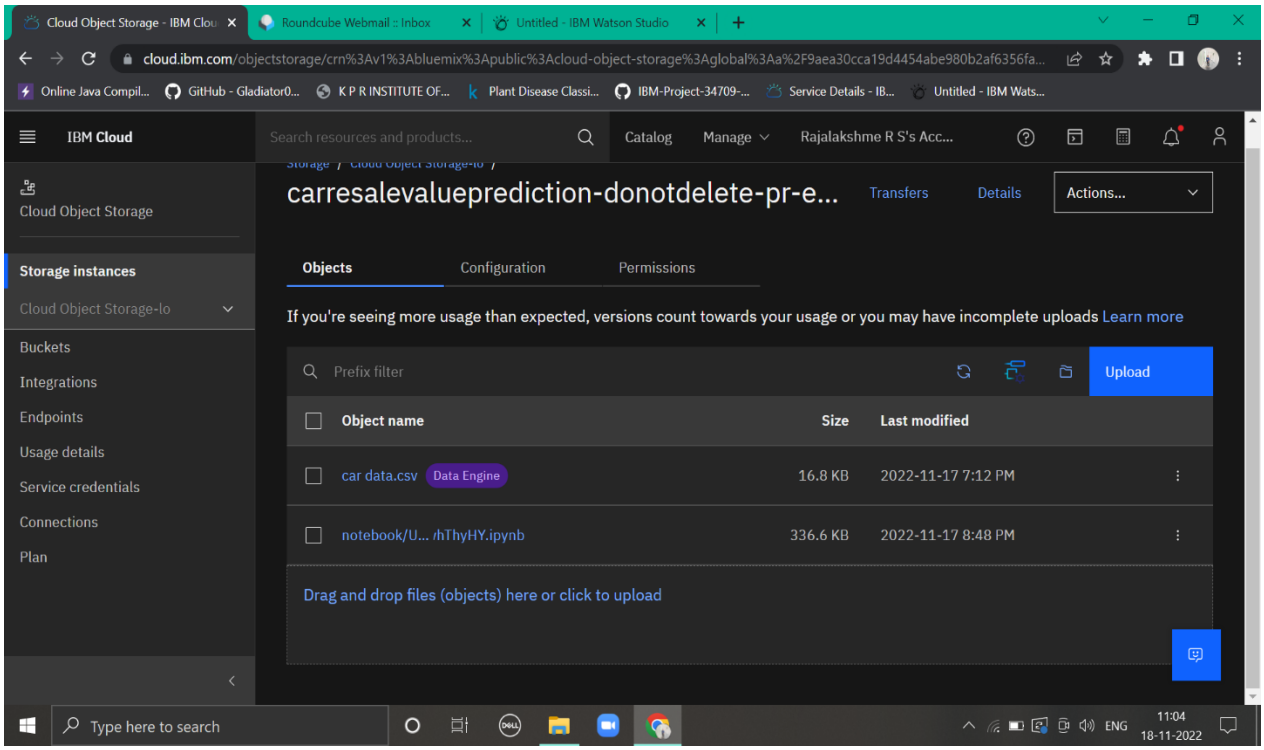
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