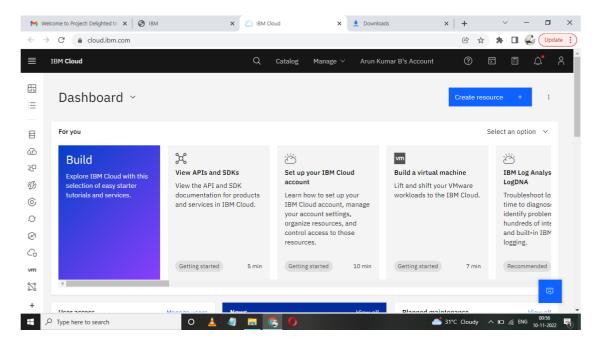
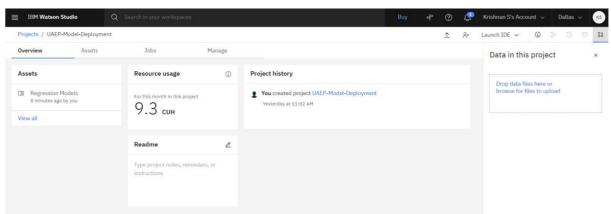
Training ML Model on IBM Watson

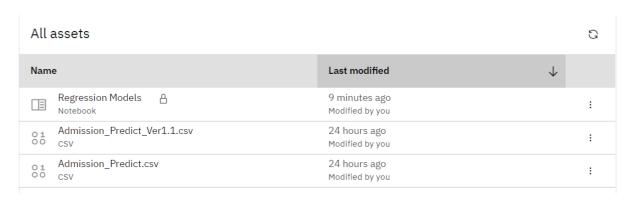
TEAM ID: IBM-Project-42692-1660705650

PROJECT: University Admit Eligibility Predictor

i) Setting up Watson Studio for running Jupyter notebooks







ii)	Training and saving the model in IBM Watson Machine Learning Service

PERSISTING THE MULTIPLE LINEAR REGRESSION MODEL AND DEPLOYING IT IN IBM CLOUD

```
In [60]: #Set Python Version
    software_spec_uid = client.software_specifications.get_uid_by_name("runtime-22.1-py3.9")
    software_spec_uid

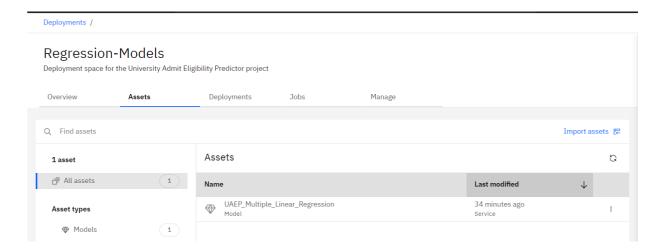
Out[60]: '12b83a17-24d8-5082-900f-0ab31fbfd3cb'

In [61]: model_details = client.repository.store_model(model = multiple_lin_reg, meta_props={
        client.repository.ModelMetaNames.NAME: "UAFP_Multiple_Linean_Regression",
        client.repository.ModelMetaNames.TYPE: "scikit-learn_1.0",
        client.repository.ModelMetaNames.SOFTWARE_SPEC_UID: software_spec_uid
    }
}
model_id = client.repository.get_model_id(model_details)

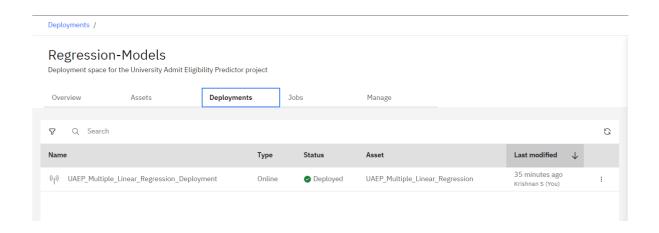
In [62]: model_id

Out[62]: '8083e827-e81f-40d1-84ab-20d511771869'
```

Assets:



Deployments:



iii) Testing the created model using the API created for the deployedmodel:

```
# MOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "<*our-API_KEY."
token response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
API_KEY, "grant_type": 'unriibm:params:oauth:grant-type:apikey'})
mltoken = token_response.json()["access_token"]
header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = ("input_data": [("field": [["GRE Score", "TOFFL Score", "University Rating", "SOP", "LOR ", "CGPA", "Research"]], "values": [[326, 110, 2, 3.5, 4, 9.23, 1]]]}}
response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/uaep_deployment/predictions?version=2022-11-12', json=payload_scoring,
headers=['Authorization': 'Bearer ' + mltoken})
print("Scoring response_scoring.json())
Scoring response_scoring.json())</pre>
Scoring response
{'predictions': [{'fields': ['prediction'], 'values': [[[0.8448151378927107]]]}}}
```