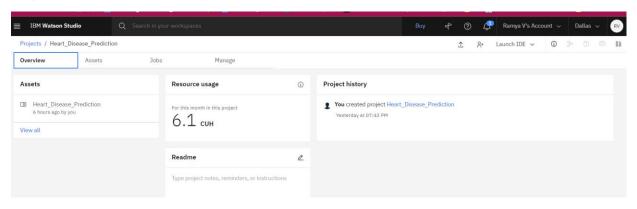
Sprint 4

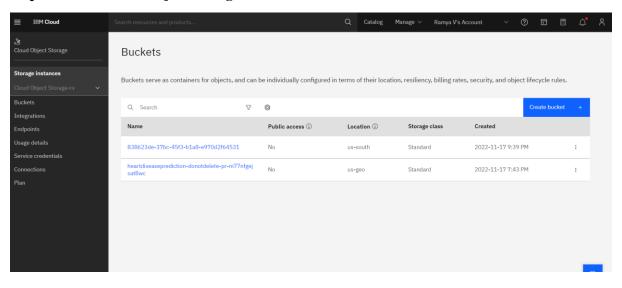
Heart Disease prediction Using ML Model in IBM Cloud

Date	18 November 2022
Team ID	PNT2022TMID52957
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard

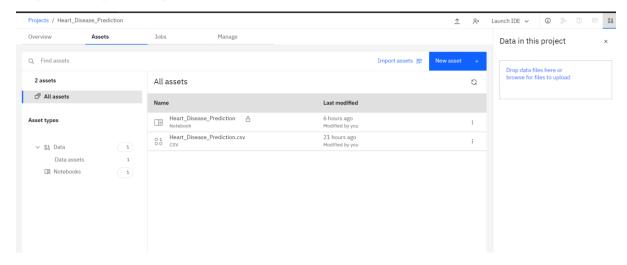
Step 1: Create Watson Studio project



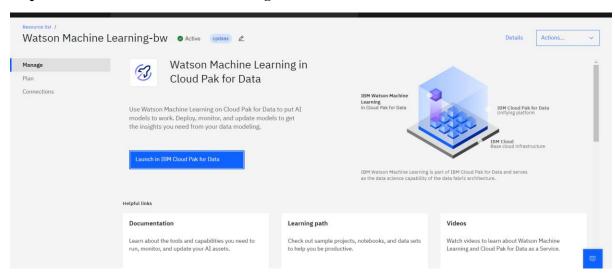
Step 2: Create Cloud Object Storage



Step 3: From project Upload Dataset and Machine Learning Model

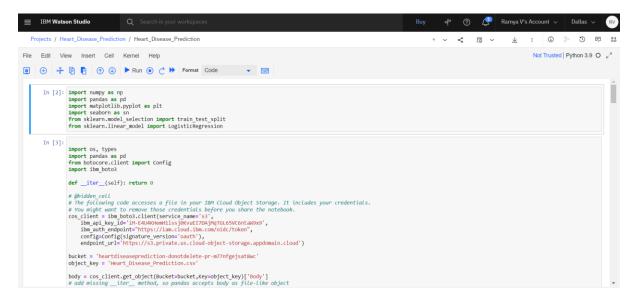


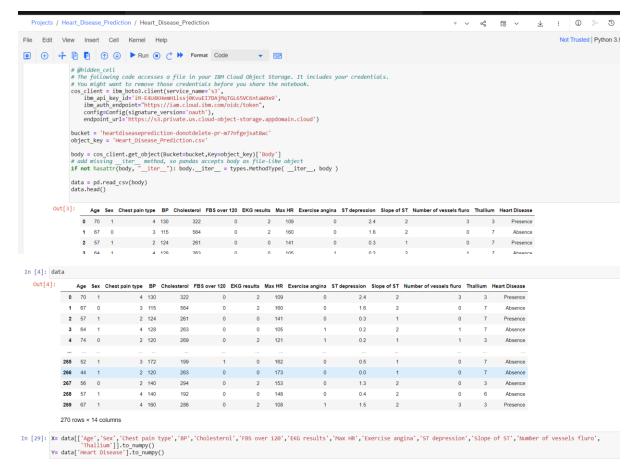
Step 4: Create Watson Machine Learning Account



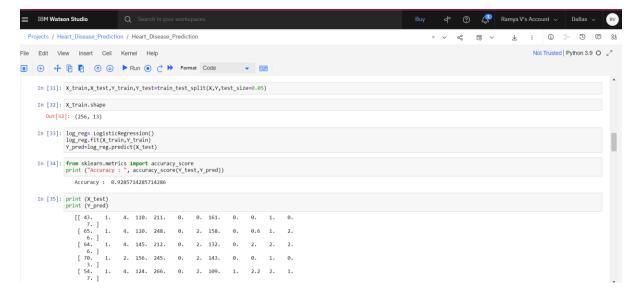
Step 5: Train ML Model in IBM Cloud

Step 1: Import Libraries and Upload data in IBM Watson Studio And Connect it to ML Model

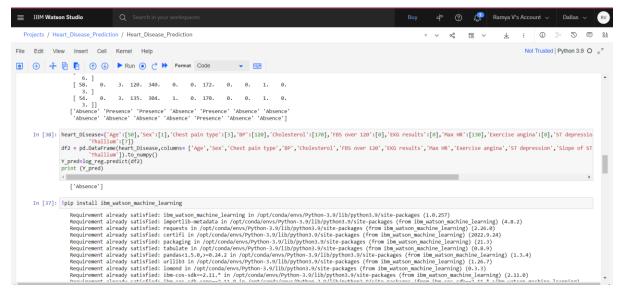




Step 2: Train and Test ML Model and Check For Accuracy



Step 3: Check with varies sample data



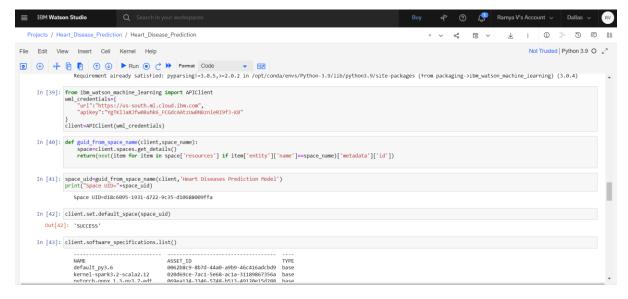
Step 6: Connecting a Machine Learning Service as an API Client

Step 1: Create API Key in IBM Cloud

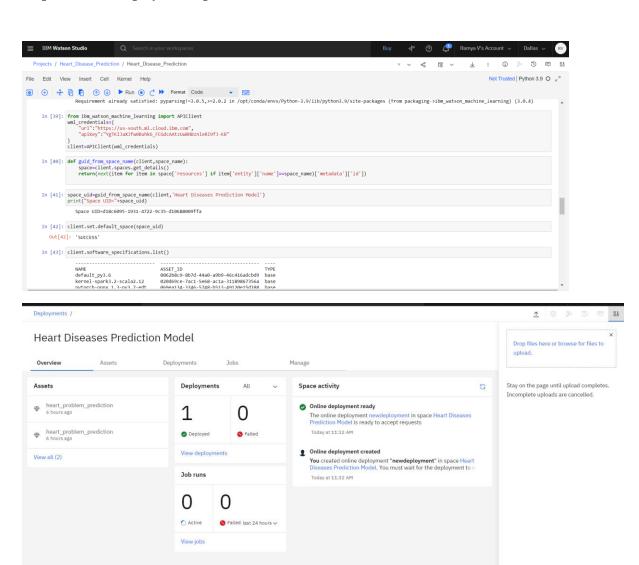
[n [43]: client.software_specifications.list()

```
Requirement already satisfied: pyparsingl=3.0.5,>=2.0.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from packaging->ibm_watson_machine_learning) (3.0.4)
[n [39]: from ibm_watson_machine_learning import APIClient
wml_credentials={
    "url":"https://us-south.ml.cloud.ibm.com",
    "apikey":"vgTklJaX/Y608uhke_FCGdcA4tzUwBNBznleR19fJ-KB"
         client=APIClient(wml credentials)
In [41]: space_uid=guid_from_space_name(client, 'Heart Diseases Prediction Model')
print("Space UID="+space_uid)
            Space UID=d18c6095-1931-4722-9c35-d10688009ffa
[n [42]: client.set.default_space(space_uid)
[n [43]: client.software_specifications.list()
               Step 2: Deploy Model
            Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from packaging->ibm_watson_machine_learning) (3.0.4)
[n [39]: from ibm_watson_machine_learning import APIClient
wml_credentials={
    "url":"https://us-south.ml.cloud.ibm.com",
    "apikey":"vgrkljaXYFv080uhks_FCGdcAAtzUwBNBznleR19FJ-KB"
         client=APIClient(wml_credentials)
In [41]: space_uid=guid_from_space_name(client, 'Heart Diseases Prediction Model')
print("Space_UID="+space_uid)
            Space UID=d18c6095-1931-4722-9c35-d10688009ffa
In [42]: client.set.default_space(space_uid)
```

Step 7: Create Deployment Space Where Model will be deployed



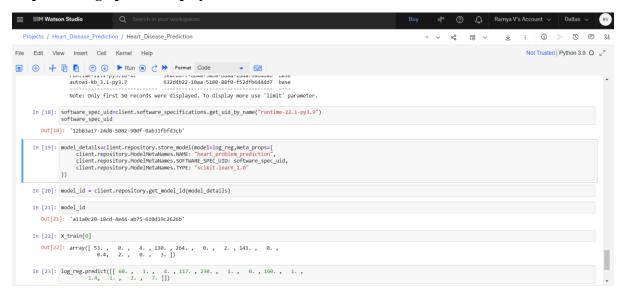
Step 8: Create Deployment Space as Heart Diseases Prediction Model



Step 9: Make the Space id as default one

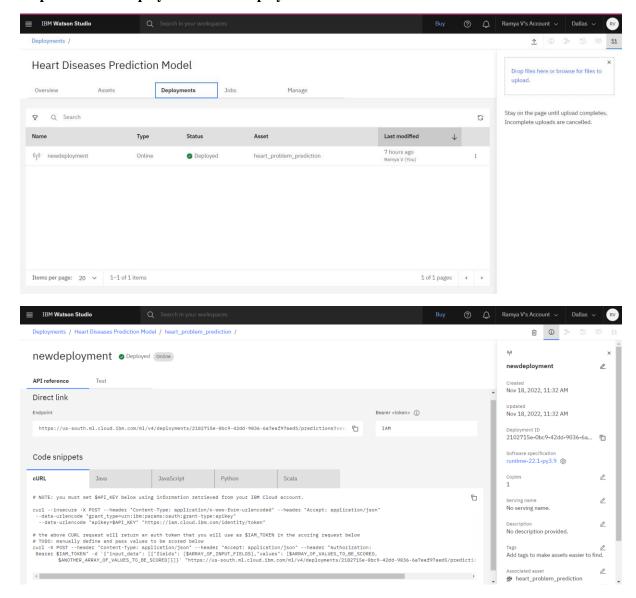


Step 10: Using Space id Deploy an scikit-learn



Step 11: Test And predict the Model

Step 12: Create Deployment as newdeployment



Step 13: Heart Disease prediction in python using Deployed Model in IBM cloud

Code

Output: