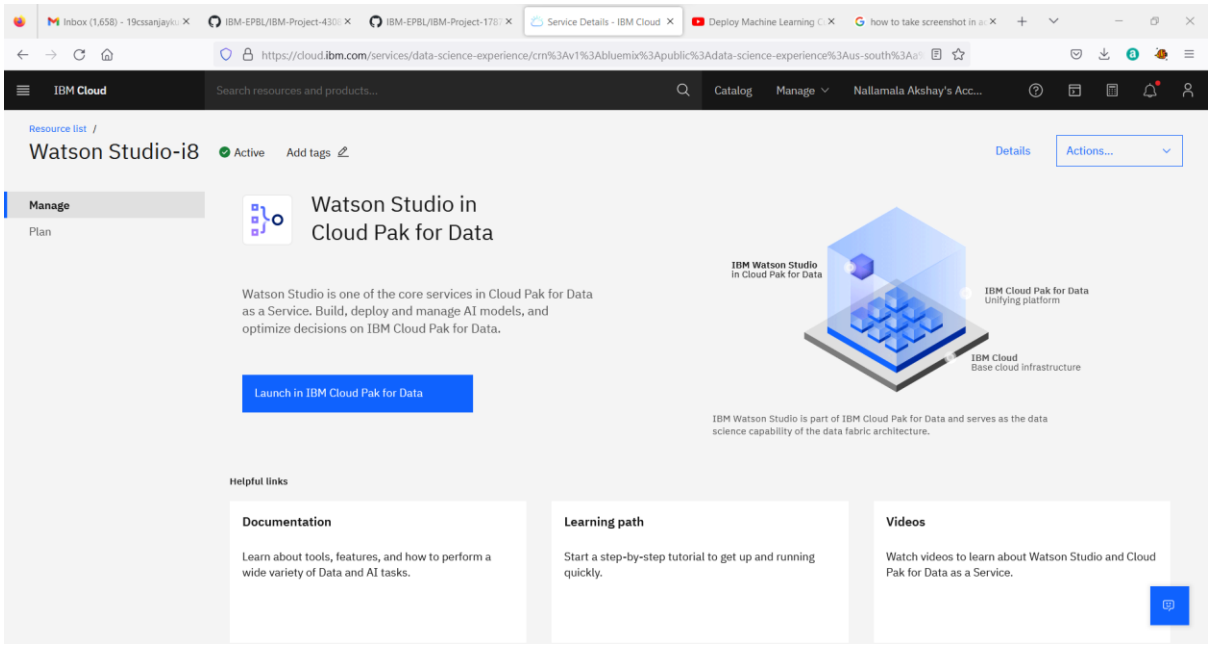
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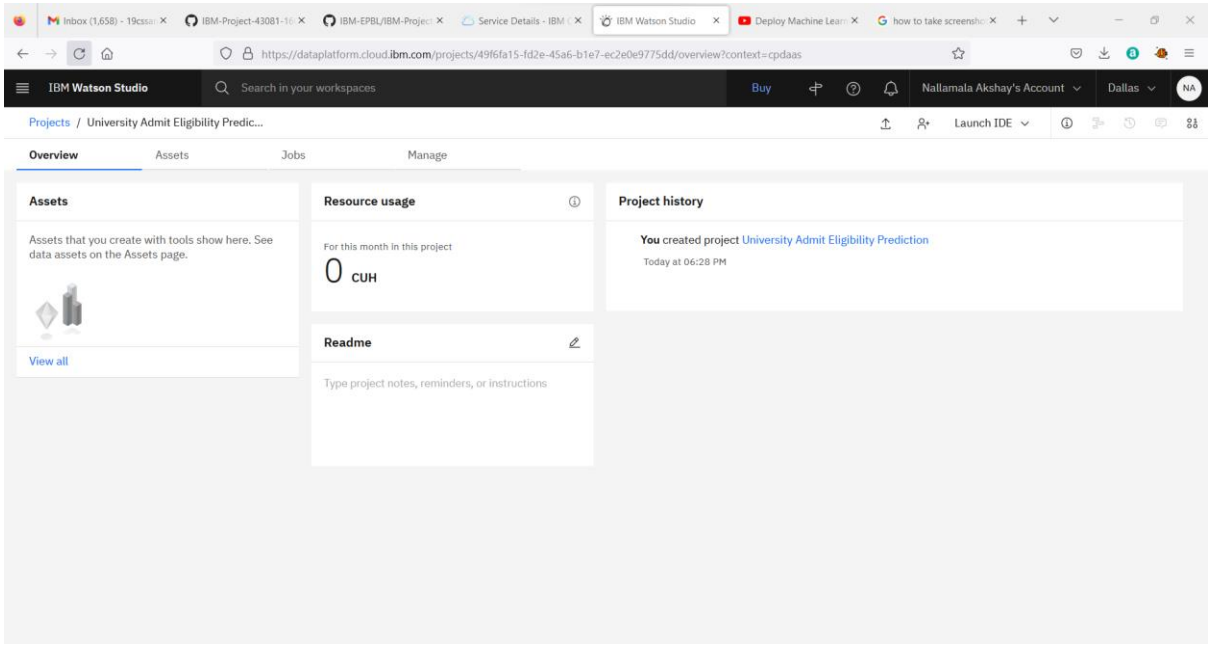
Watson Studio in
Cloud Pak for Data
Watson Studio is one of the core services in Cloud Pak for Data as a Service. Build, deploy and manage AI models, and optimize decisions on IBM Cloud Pak for Data.
Launch in IBM Cloud Pak for Data
IBM Watson Studio
in Cloud Pak for Data
IBM Cloud Pak for Data
Unifying platform
IBM Cloud
Base cloud infrastructure
IBM Watson Studio is part of IBM Cloud Pak for Data and serves as the data science capability of the data fabric architecture.
Helpful links
Documentation
Learn about tools, features, and how to perform a wide variety of Data and AI tasks.
Learning path
Start a step-by-step tutorial to get up and running quickly.
Videos
Watch videos to learn about Watson Studio and Cloud Pak for Data as a Service.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Assets that you create with tools show here. See data assets on the Assets page.
View all
Resource usage
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0 CUH
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You created project University Admit Eligibility Prediction
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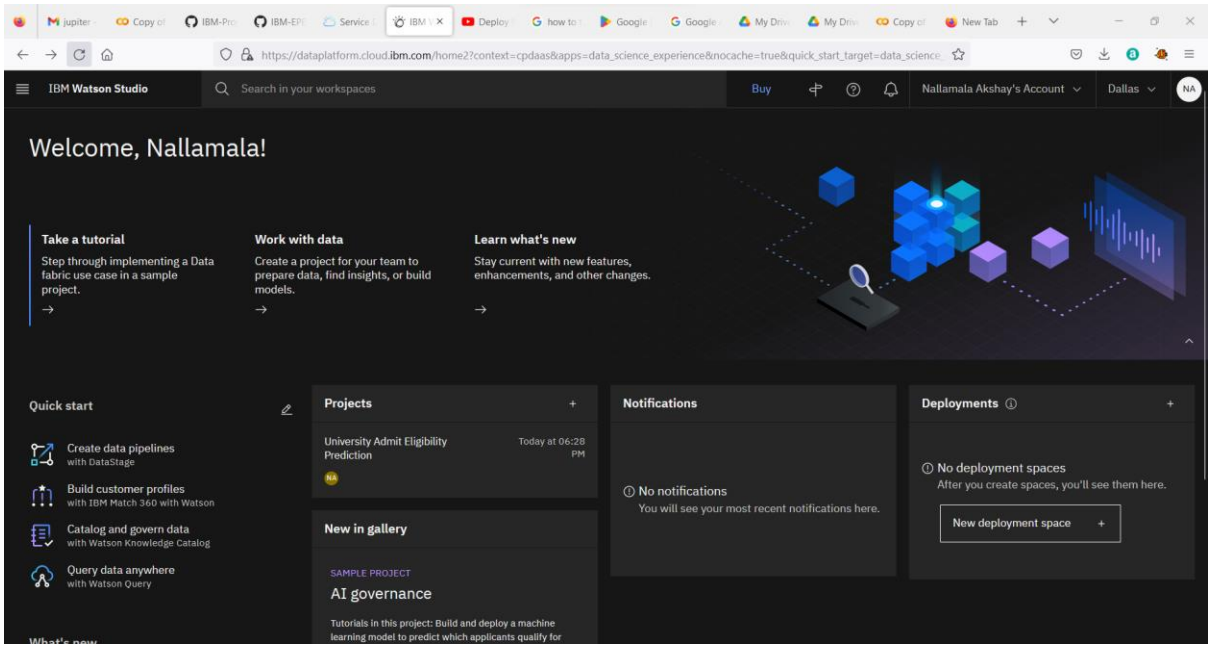
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Tutorials in this project: Build and deploy a machine learning model to predict which applicants qualify for
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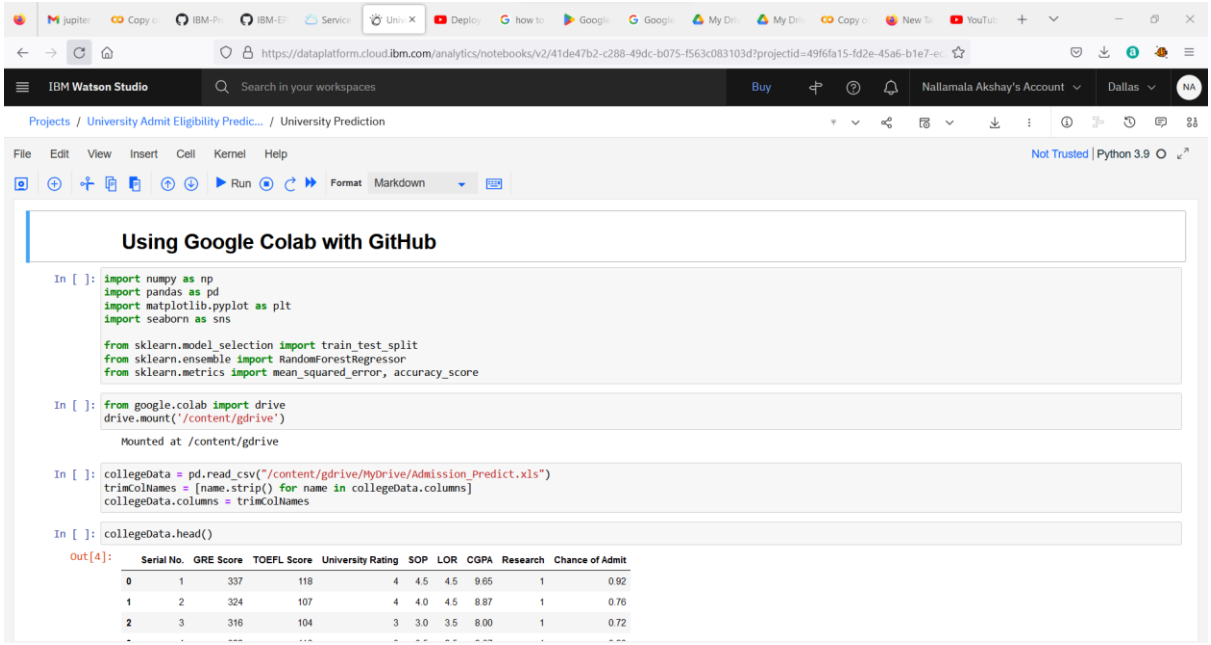
New deployment space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Run
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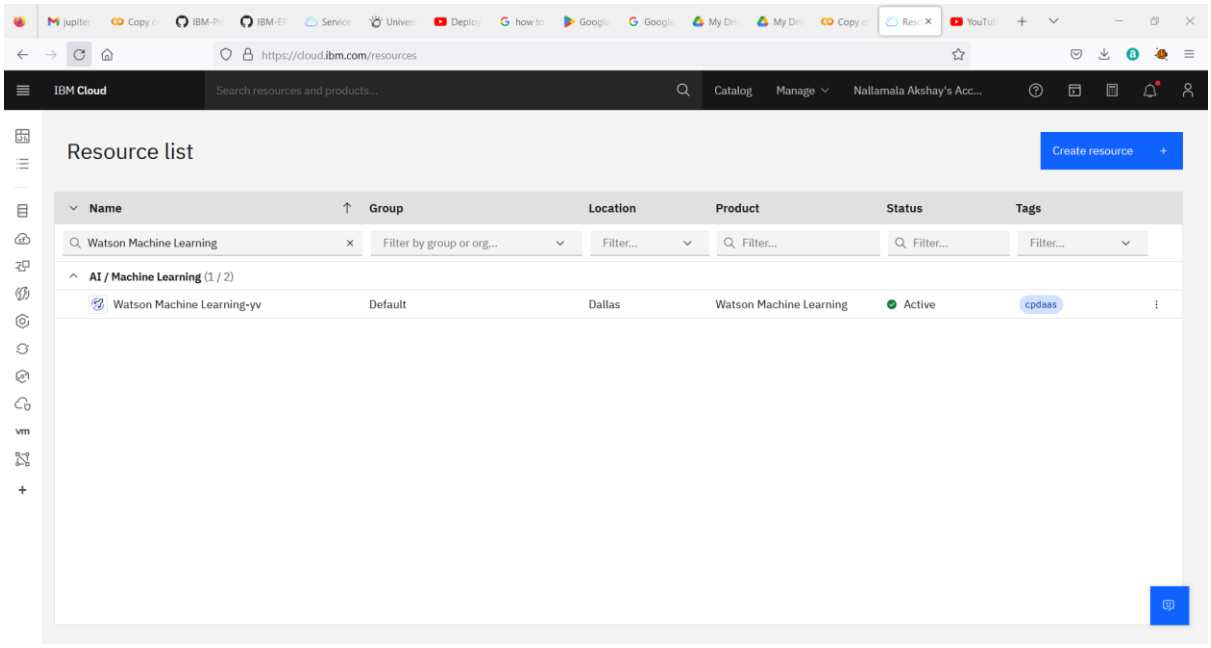
Using Google Colab with GitHub
In [ ]:
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import mean_squared_error, accuracy_score
In [ ]:
from google.colab import drive
drive.mount('/content/gdrive')
Mounted at /content/gdrive
In [ ]:
collegeData = pd.read_csv("/content/gdrive/MyDrive/Admission_Predict.xls")
trimColNames = [name.strip() for name in collegeData.columns]
collegeData.columns = trimColNames
In [ ]:
collegeData.head()
Out[4]:
Serial No. GRE Score TOEFL Score University Rating SOP LOR CGPA Research Chance of Admit
0 1 337 118 4 4.5 4.5 9.65 1 0.92
1 2 324 107 4 4.0 4.5 8.87 1 0.76
2 3 316 104 3 3.0 3.5 8.00 1 0.72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Location
Product
Status
Tags
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Filter...
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Watson Machine Learning
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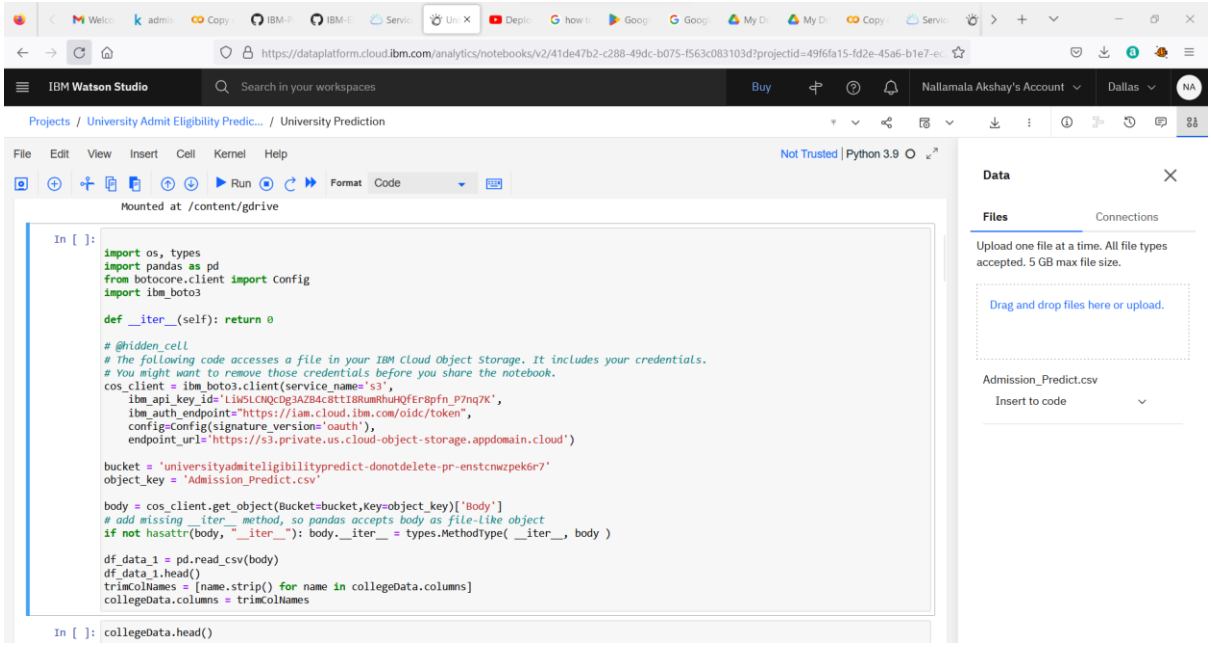
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Code
Mounted at /content/gdrive
In [ ]:
import os, types
import pandas as pd
from botocore.client import Config
import ibm_boto3
def __iter__(self): return 0
# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
cos_client = ibm_boto3.client(service_name='s3',
ibm_api_key_id='LiW5LCNQcDg3AZB4cBttI8RumRhuHQfEr8pfn_P7nq7K',
ibm_auth_endpoint="https://iam.cloud.ibm.com/oidc/token",
config=Config(signature_version='oauth'),
endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')
bucket = 'universityadmiteligibilitypredict-donotdelete-pr-enstcnwzpek6r7'
object_key = 'Admission_Predict.csv'
body = cos_client.get_object(Bucket=bucket,Key=object_key)['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)
df_data_1 = pd.read_csv(body)
df_data_1.head()
trimColNames = [name.strip() for name in collegeData.columns]
collegeData.columns = trimColNames
In [ ]:
collegeData.head()
Data
Files
Connections
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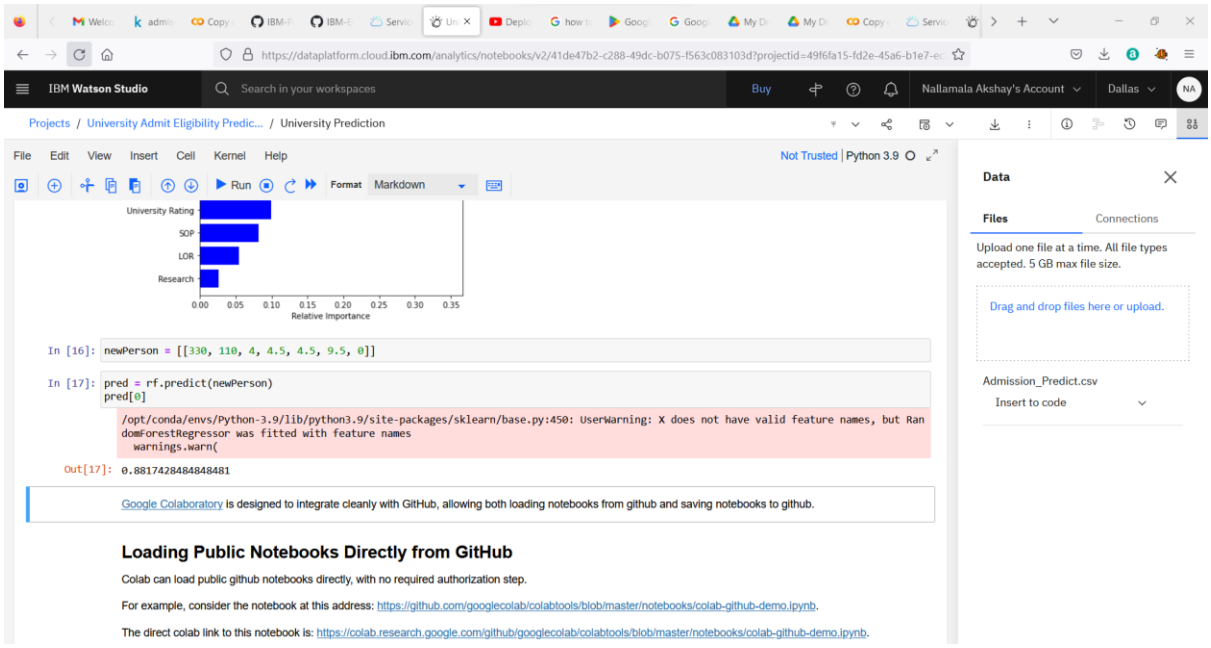
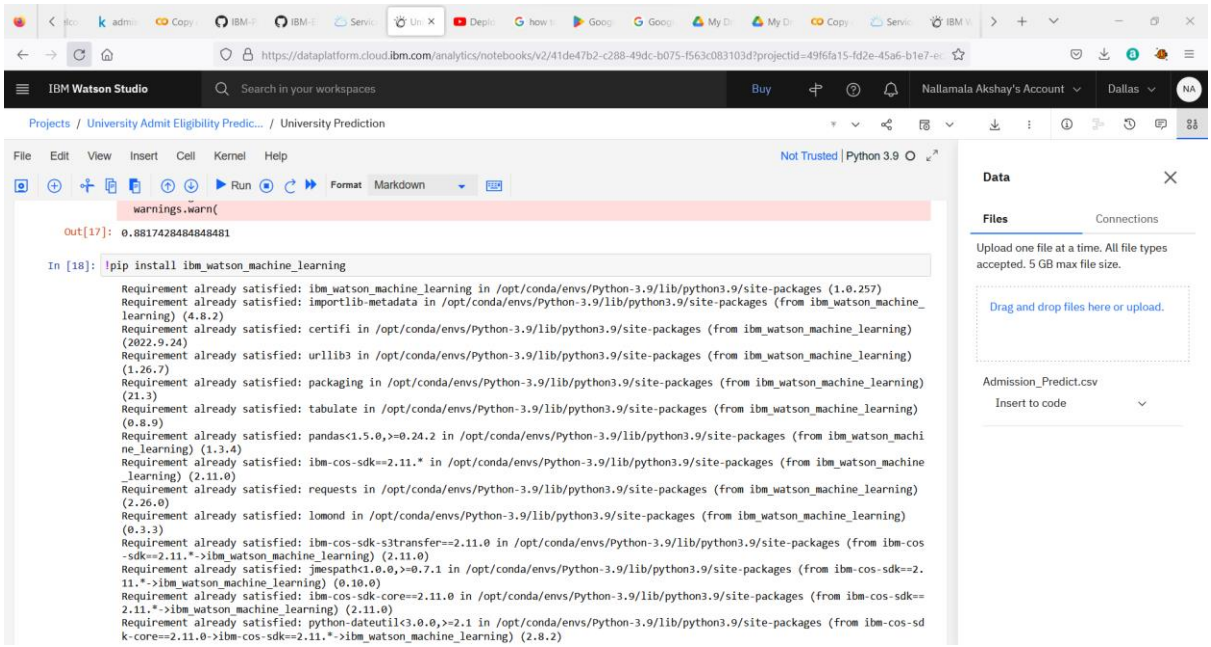
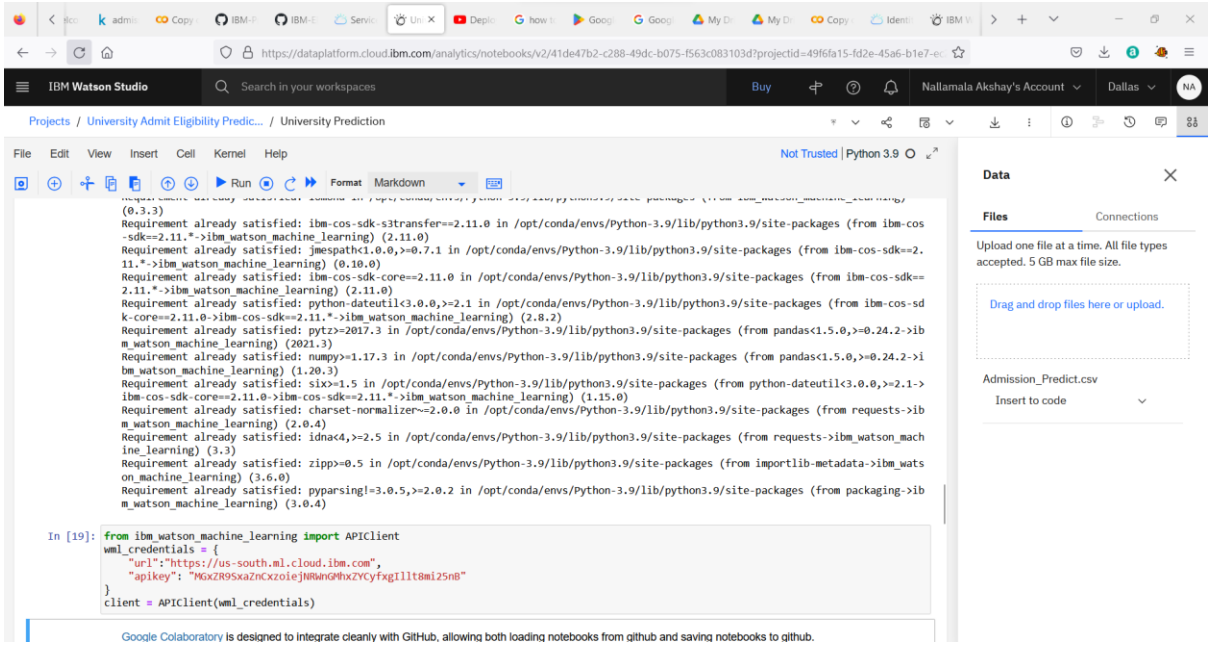
Admission_Predict.csv
Insert to code

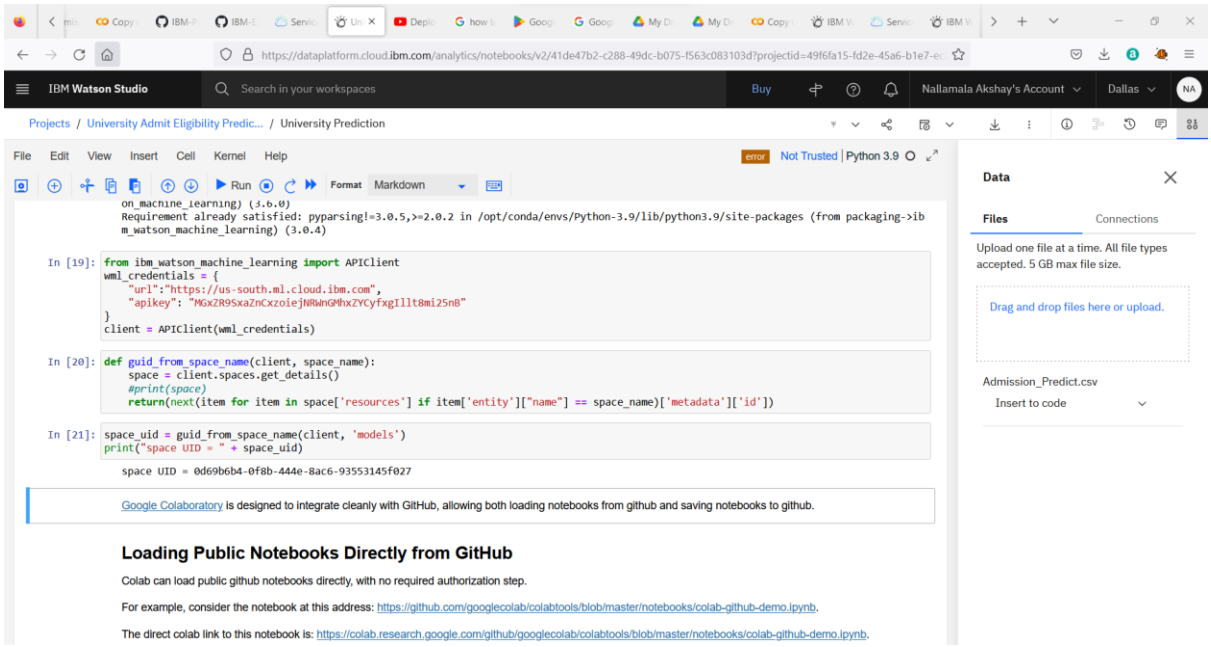


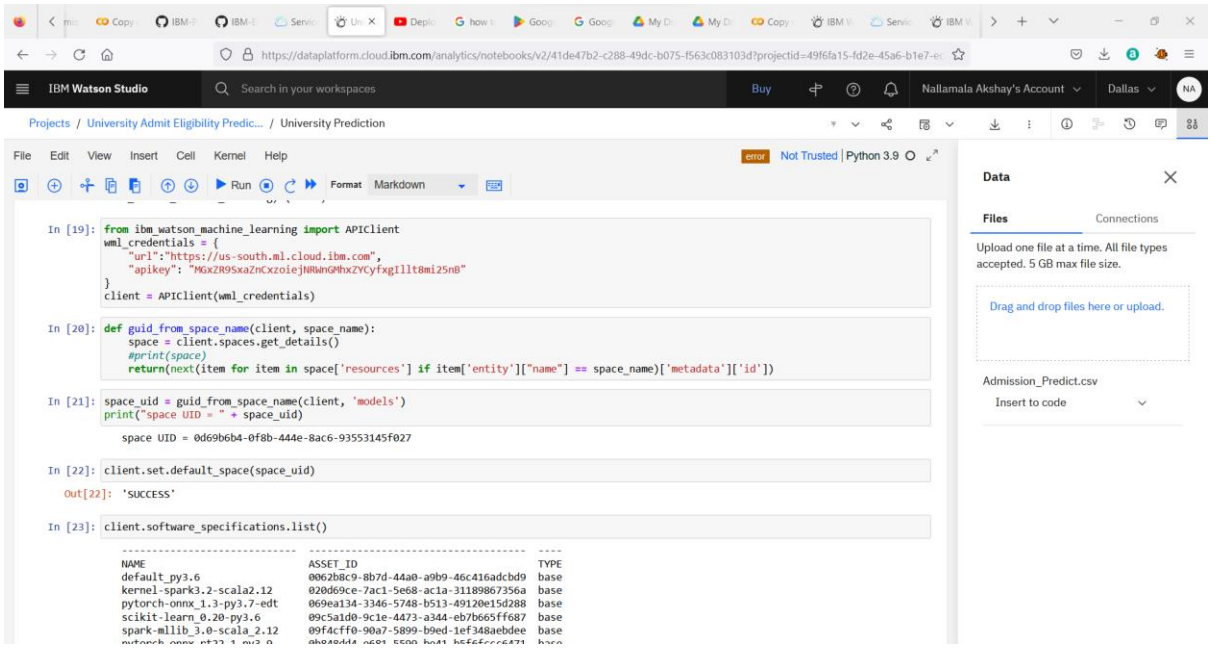
Deployement





Deployement space

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In [19]:
from ibm_watson_machine_learning import APIClient
wml_credentials = {
"url":"https://us-south.ml.cloud.ibm.com",
"apikey": "MGxZR9SxaZnCxzoiejNRWnGMhxZYCyfxgIllt8mi25nB"
}
client = APIClient(wml_credentials)
In [20]:
def guid_from_space_name(client, space_name):
space = client.spaces.get_details()
#print(space)
return(next(item for item in space['resources'] if item['entity']["name"] == space_name)['metadata']['id'])
In [21]:
space_uid = guid_from_space_name(client, 'models')
print("space UID = " + space_uid)
space UID = 0d69b6b4-0f8b-444e-8ac6-93553145f027
In [22]:
client.set.default_space(space_uid)
Out[22]: 'SUCCESS'
In [23]:
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
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Admission_Predict.csv
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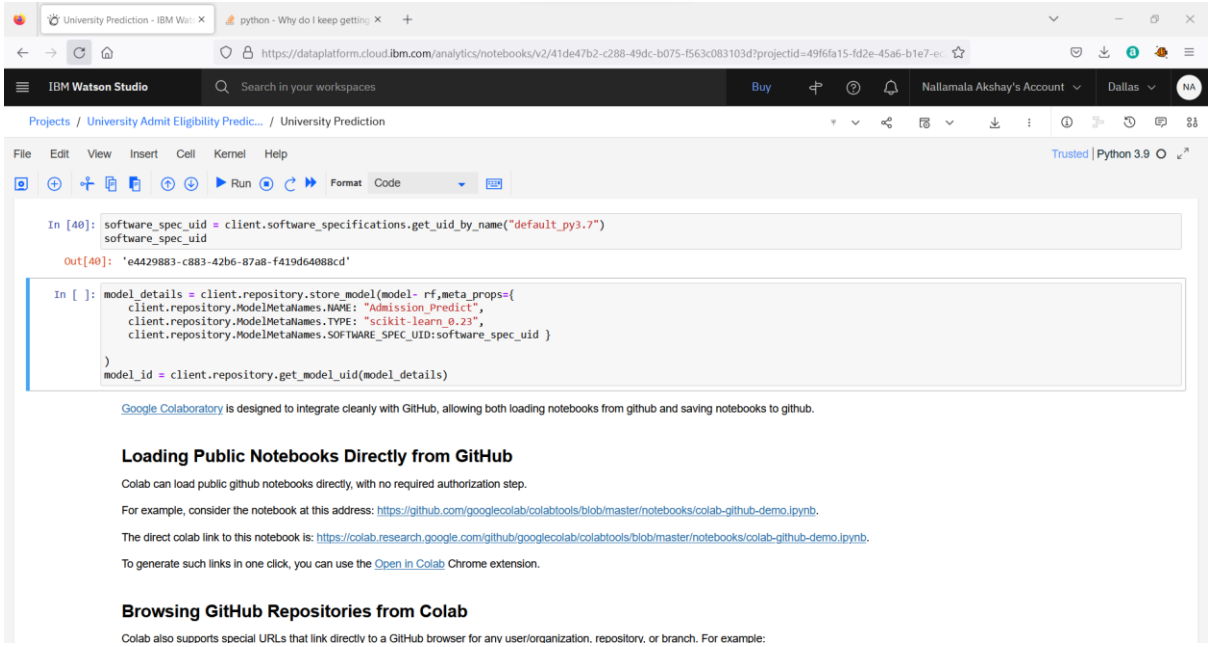
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In [40]:
software_spec_uid = client.software_specifications.get_uid_by_name("default_py3.7")
software_spec_uid
Out[40]: 'e4429883-c883-42b6-87a8-f419d64088cd'
In [ ]:
model_details = client.repository.store_model(model= rf,meta_props={
client.repository.ModelMetaNames.NAME: "Admission_Predict",
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)
Google Colaboratory is designed to integrate cleanly with GitHub, allowing both loading notebooks from github and saving notebooks to github.
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Colab can load public github notebooks directly, with no required authorization step.
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