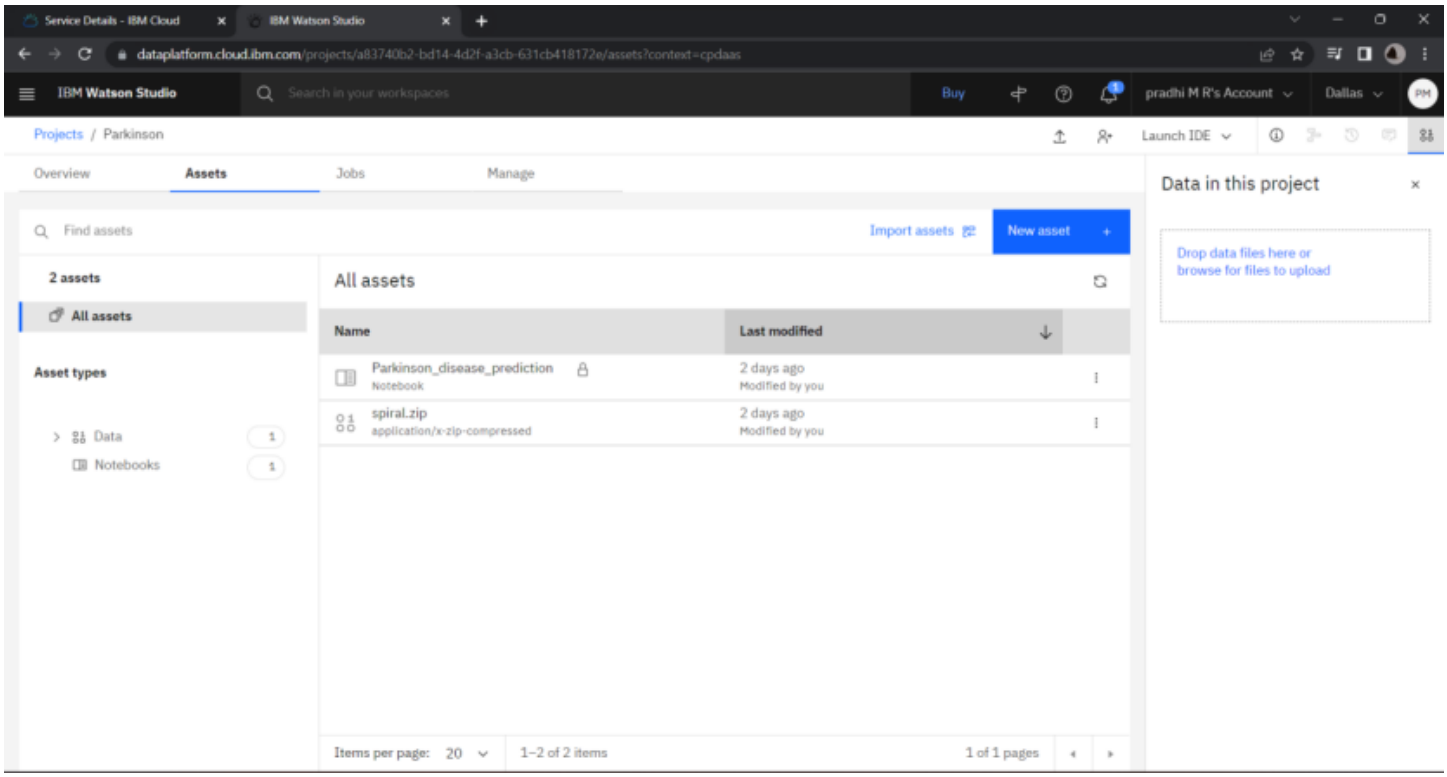
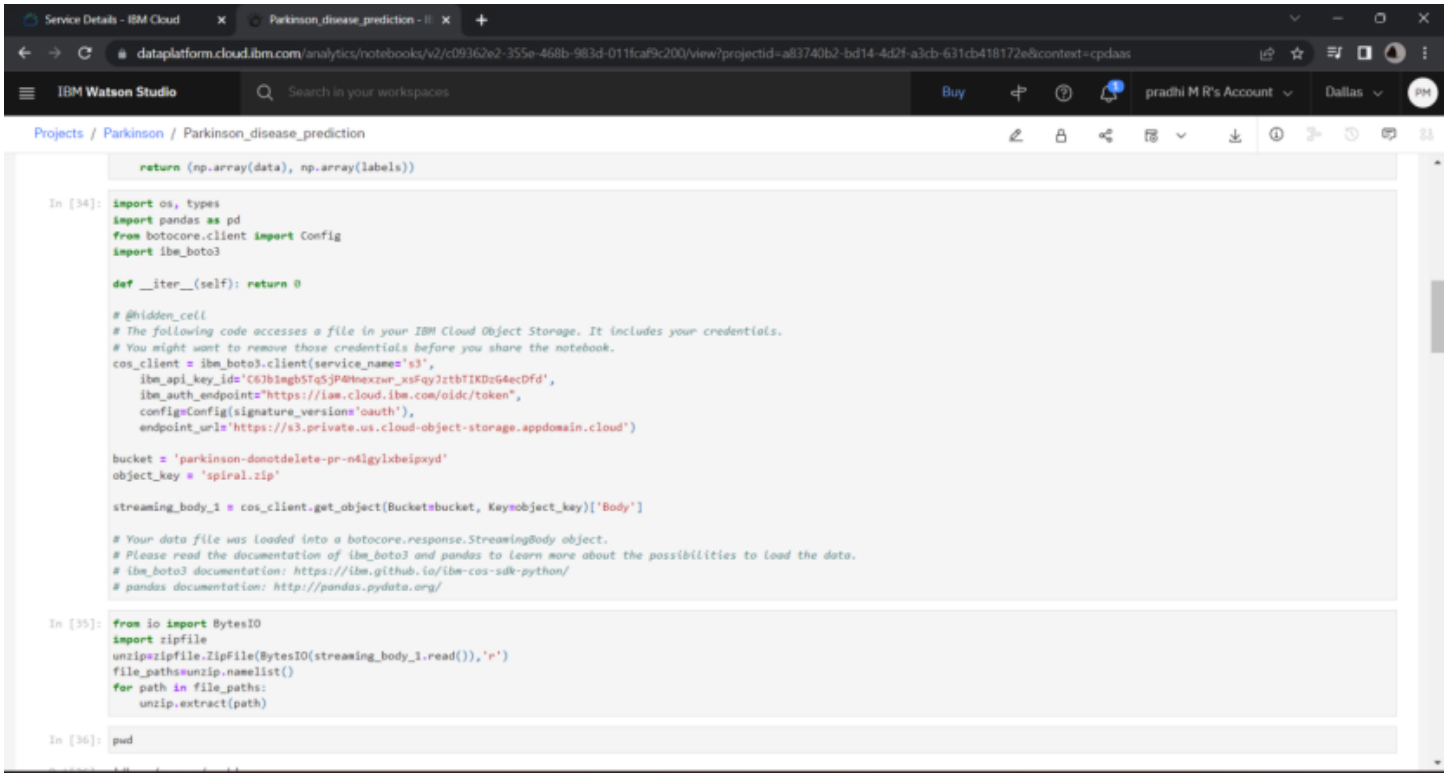
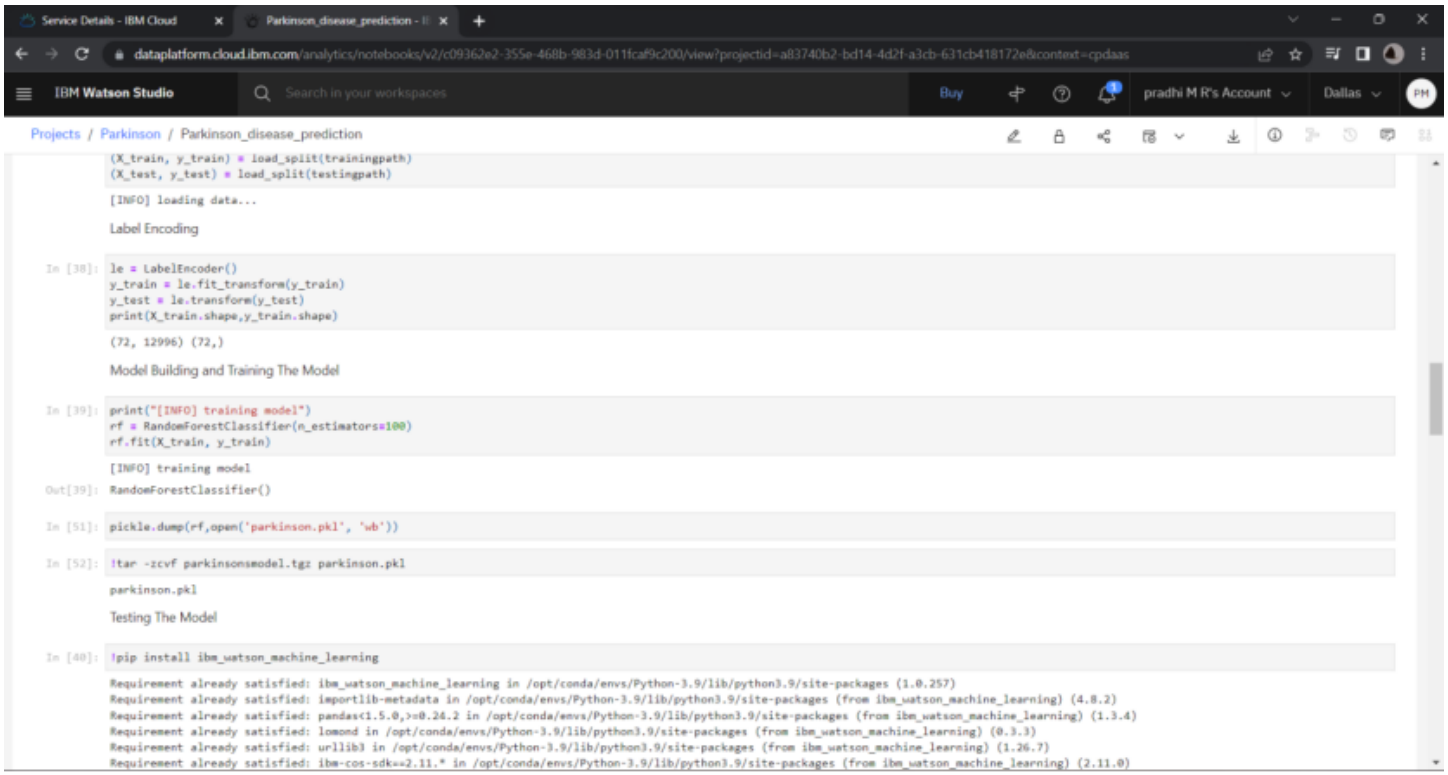

Service Details - IBM Cloud
IBM Watson Studio
dataplatform.cloud.ibm.com/projects/a83740b2-bd14-4d2f-a3cb-631cb418172e/assets?context=cpdaas
IBM Watson Studio
Search in your workspaces
Buy
pradhi M R's Account
Dallas
Projects / Parkinson
Launch IDE
Overview
Assets
Jobs
Manage
Data in this project
Find assets
Import assets
New asset
2 assets
All assets
Asset types
Data 1
Notebooks 1
All assets
Name
Last modified
Parkinson_disease_prediction
Notebook
2 days ago
Modified by you
spiral.zip
application/x-zip-compressed
2 days ago
Modified by you
Drop data files here or
browse for files to upload
Items per page: 20
1–2 of 2 items
1 of 1 pages


Service Details - IBM Cloud
Parkinson_disease_prediction - I
dataplatform.cloud.ibm.com/analytics/notebooks/v2/c09362e2-355e-468b-983d-011fcaf9c200/view?projectid=a83740b2-bd14-4d2f-a3cb-631cb418172e&context=cpdaas
IBM Watson Studio
Search in your workspaces
Buy
pradhi M R's Account
Dallas
Projects / Parkinson / Parkinson_disease_prediction
return (np.array(data), np.array(labels))
In [34]:
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='C6Jb1mgbSTq5jP4Mnexzwr_xsFqyJztbTIKDzG4ecDfd',
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 = 'parkinson-donotdelete-pr-n4lgylxbeipxyd'
object_key = 'spiral.zip'
streaming_body_1 = cos_client.get_object(Bucket=bucket, Key=object_key)['Body']
# Your data file was loaded into a botocore.response.StreamingBody object.
# Please read the documentation of ibm_boto3 and pandas to learn more about the possibilities to load the data.
# ibm_boto3 documentation: https://ibm.github.io/ibm-cos-sdk-python/
# pandas documentation: http://pandas.pydata.org/
In [35]:
from io import BytesIO
import zipfile
unzip=zipfile.ZipFile(BytesIO(streaming_body_1.read()),'r')
file_paths=unzip.namelist()
for path in file_paths:
unzip.extract(path)
In [36]:
pwd


Service Details - IBM Cloud
Parkinson_disease_prediction - II
dataplatform.cloud.ibm.com/analytics/notebooks/v2/c09362e2-355e-468b-983d-011fcaf9c200/view?projectid=a83740b2-bd14-4d2f-a3cb-631cb418172e&context=cpdaas
IBM Watson Studio
Search in your workspaces
Buy
pradhi M R's Account
Dallas
PM
Projects / Parkinson / Parkinson_disease_prediction
(X_train, y_train) = load_split(trainingpath)
(X_test, y_test) = load_split(testingpath)
[INFO] loading data...
Label Encoding
In [38]:
le = LabelEncoder()
y_train = le.fit_transform(y_train)
y_test = le.transform(y_test)
print(X_train.shape,y_train.shape)
(72, 12996) (72,)
Model Building and Training The Model
In [39]:
print("[INFO] training model")
rf = RandomForestClassifier(n_estimators=100)
rf.fit(X_train, y_train)
[INFO] training model
Out[39]:
RandomForestClassifier()
In [51]:
pickle.dump(rf,open('parkinson.pkl', 'wb'))
In [52]:
!tar -zcvf parkinsonsmodel.tgz parkinson.pkl
parkinson.pkl
Testing The Model
In [40]:
!pip install ibm_watson_machine_learning
Requirement already satisfied: ibm_watson_machine_learning in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (1.0.257)
Requirement already satisfied: importlib-metadata in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (4.8.2)
Requirement already satisfied: pandas<1.5.0,>=0.24.2 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (1.3.4)
Requirement already satisfied: lomond in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (0.3.3)
Requirement already satisfied: urllib3 in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (1.26.7)
Requirement already satisfied: ibm-cos-sdk==2.11.* in /opt/conda/envs/Python-3.9/lib/python3.9/site-packages (from ibm_watson_machine_learning) (2.11.0)