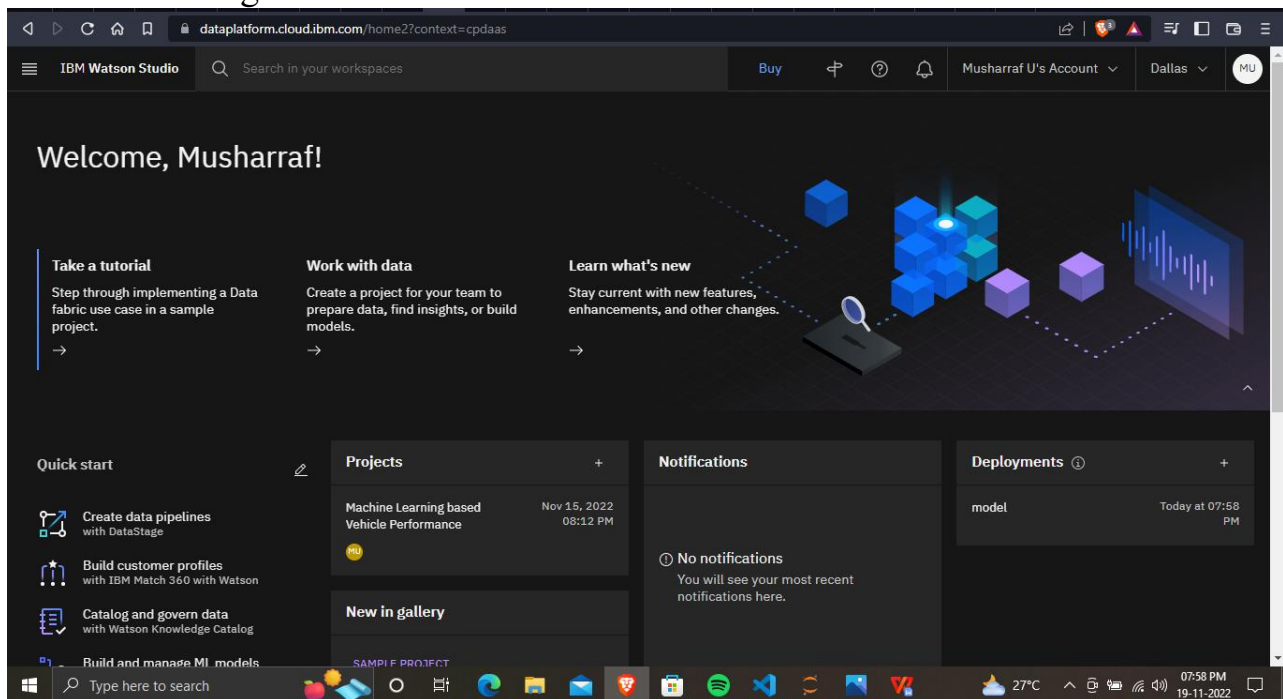


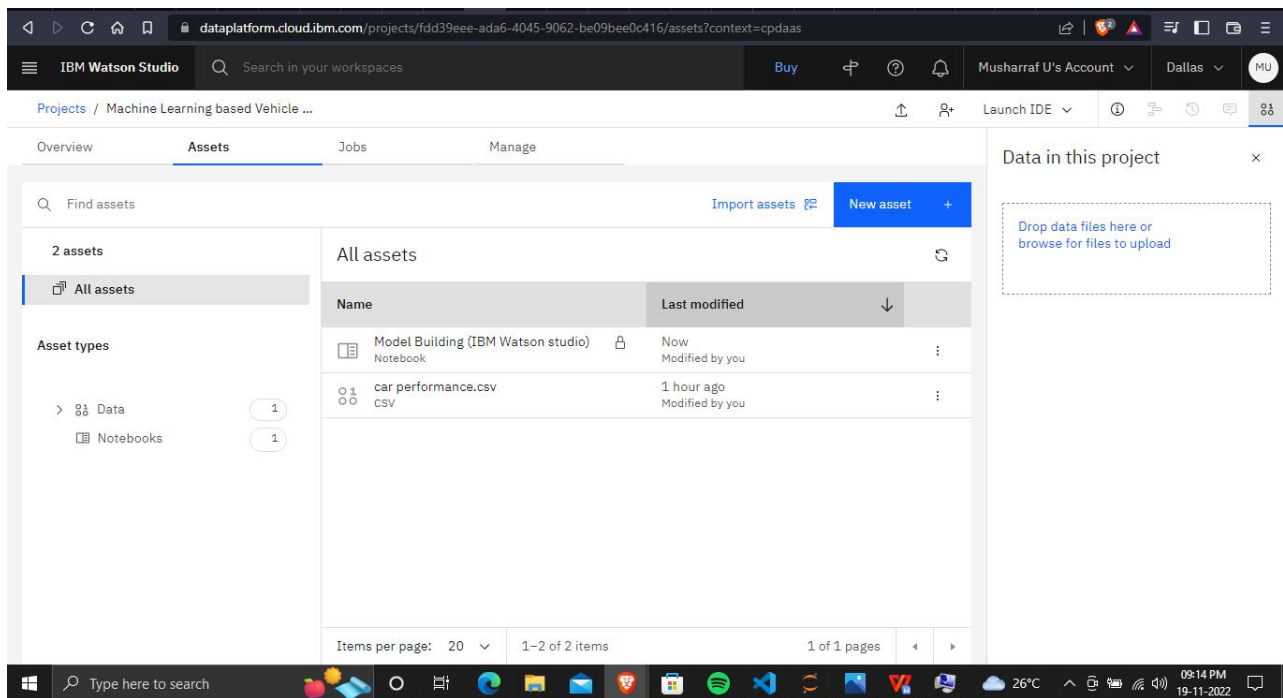
Train Model on IBM

Date	19 - November - 2022
Team ID	PNT2022TMID37180
Project Name	Machine Learning based Vehicle Performance Analyzer

1. Training the ML Model in IBM Watson Studio:



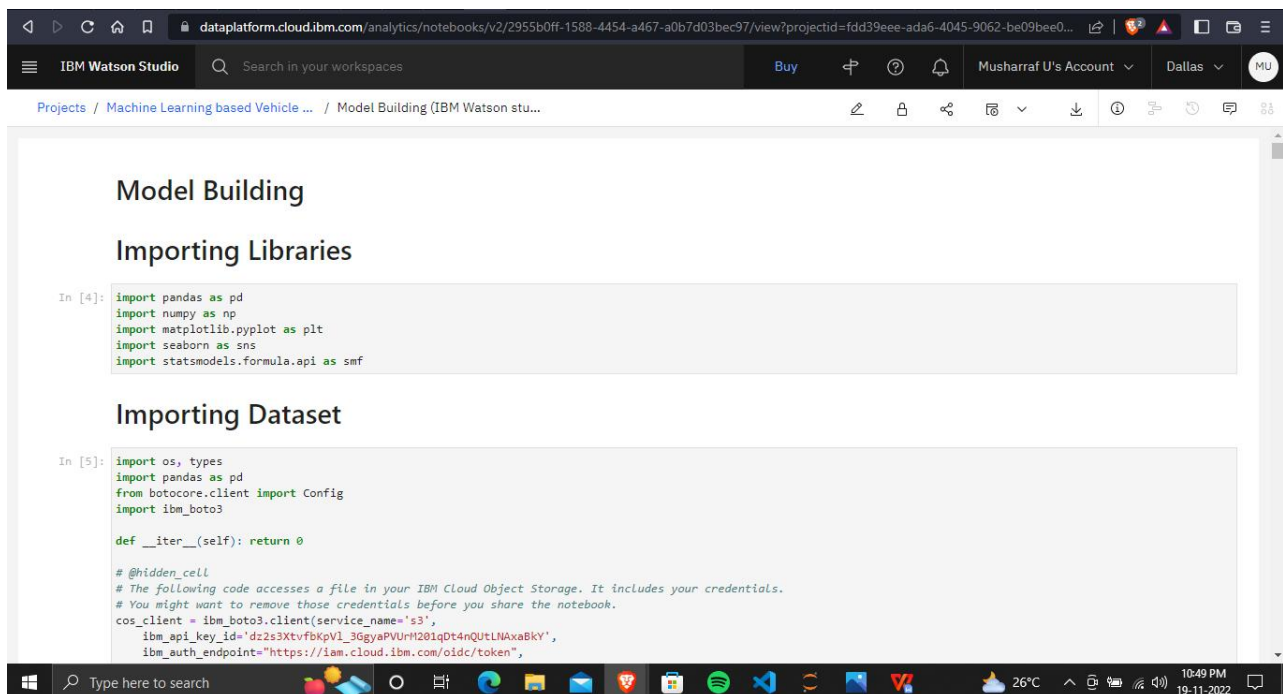
2. Model for Vehicle performance has been created using Jupyter Notebook.



The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information (Musharraf U's Account, Dallas). The main content area is titled "Projects / Machine Learning based Vehicle ..." and features tabs for Overview, Assets, Jobs, and Manage. The "Assets" tab is active, displaying a list of assets. On the left, there's a sidebar with "Find assets" and "Asset types" (Data, Notebooks). The main list shows two assets: "Model Building (IBM Watson studio)" and "car performance.csv". A "Data in this project" panel on the right provides a drop zone for data files. The bottom of the screen shows a Windows taskbar with various application icons and system information (26°C, 09:14 PM, 19-11-2022).

Name	Last modified
Model Building (IBM Watson studio) Notebook	Now Modified by you
car performance.csv CSV	1 hour ago Modified by you

Dataset: Car_performance.csv



The screenshot displays a Jupyter Notebook within the IBM Watson Studio environment. The notebook is titled "Model Building" and "Importing Libraries". It contains two code cells. The first cell imports various libraries including pandas, numpy, matplotlib, seaborn, and statsmodels. The second cell imports os, types, pandas, boto3, and Config, and defines a class for importing the dataset. The bottom of the screen shows a Windows taskbar with various application icons and system information (26°C, 10:49 PM, 19-11-2022).

```
In [4]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import statsmodels.formula.api as smf
```

```
In [5]: import os, types
import pandas as pd
from boto3.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='dz2s3XtVfbkPv1_3GgyaPVUvH201qDt4nQtULNAXa8KY',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
```

3. Model for Vehicle performance has been created using Jupyter Notebook and Deployed under “models” space.

The screenshot shows the IBM Watson Studio interface. The top navigation bar includes the IBM Watson Studio logo, a search bar, and user account information for Musharraf U's Account in Dallas. The main heading is "Deployments" with a sub-header "1 space". A blue button labeled "New deployment space" is in the top right. Below the heading, there are tabs for "Activity" and "Spaces", with "Spaces" being the active tab. A filter bar shows "All spaces" selected. A table lists the deployment spaces:

Name	Last modified	Your role	Collaborators	Tags	Online deployments	Jobs
model	Nov 19, 2022, 7:58 PM	Admin	MU		0	0

The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 10:50 PM on 19-11-2022.