

Model Building

Date	14 November 2022
Team ID	PNT2022TMID50507
Project Name	Machine Learning Based Vehicle Performance Analyzer

Dataset: car_performance.csv

Model ID: 'd4aa5e82-5194-4c38-9e6f-6be8210b3ffc'

The screenshot displays the IBM Watson Studio web interface. The browser address bar shows the URL: `dataplatfom.cloud.ibm.com/analytics/notebooks/v2/5502fd28-d17e-4530-a6ce-e930a1550f2c?projectId=e4227c66-dd6c-4e1e-b8e5-2f356f865c32&context=cpdaas`. The interface includes a top navigation bar with the IBM Watson Studio logo and a search bar. Below this, a breadcrumb trail indicates the current location: `Projects / Vehicle Performance Analyzer - ... / Model Building Car Performance`. The main workspace is a Jupyter Notebook titled `Model_Building.html`. The notebook contains a code cell with the following Python code:

```
In [14]: 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='R5rvQziyu_H127g9lck2bE-v7Hc3NDH9QNgQWwHVS1Q7',
                              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 = 'vehicleperformanceanalyzerdeploy-donotdelete-pr-zcuqjsilptifi'
object_key = 'car_performance.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)

dataset = pd.read_csv(body)
dataset.head()
```

The output of the code cell shows the first two rows of the `car_performance.csv` dataset:

	mpg	cylinders	displacement	horsepower	weight	acceleration	model year	origin	car name
0	18.0	8	307.0	130	3504	12.0	70	1	chevrolet chevelle malibu
1	15.0	8	350.0	165	3693	11.5	70	1	buick skylark 320

On the right side of the notebook, there is a `Data` panel with a `Files` tab. It shows a list of files: `Churn_Modelling.csv` and `car performance.csv`. Each file has an `Insert to code` button. The `car performance.csv` file is currently selected.

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Items per page: 201-2 of 2 items1 of 1 pages

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