Pre-Requisites

Trip Based Modeling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning

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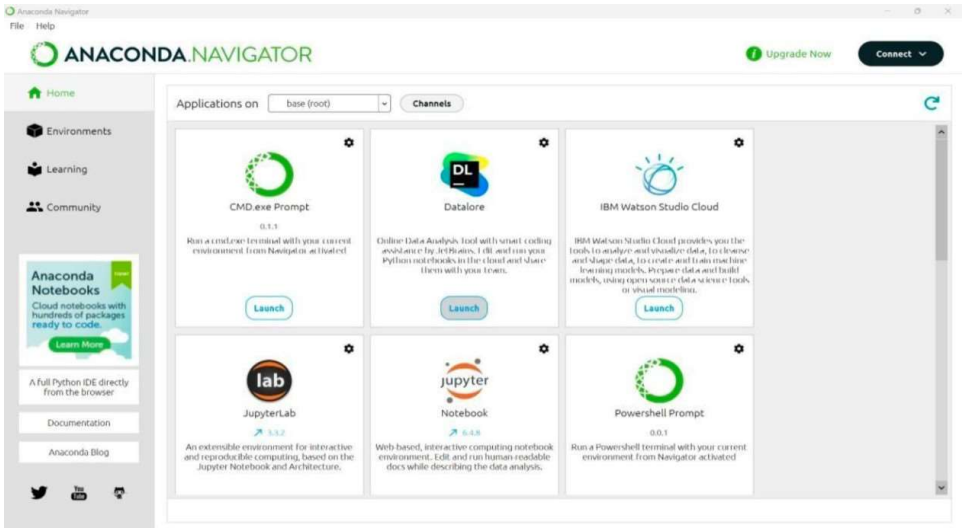
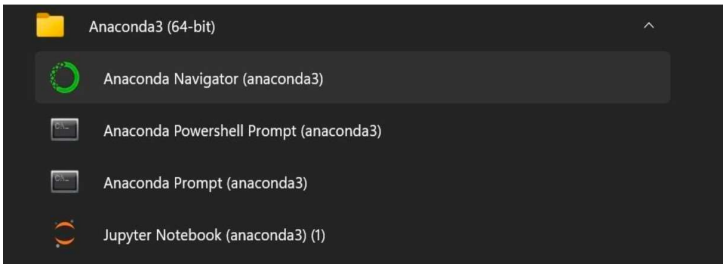
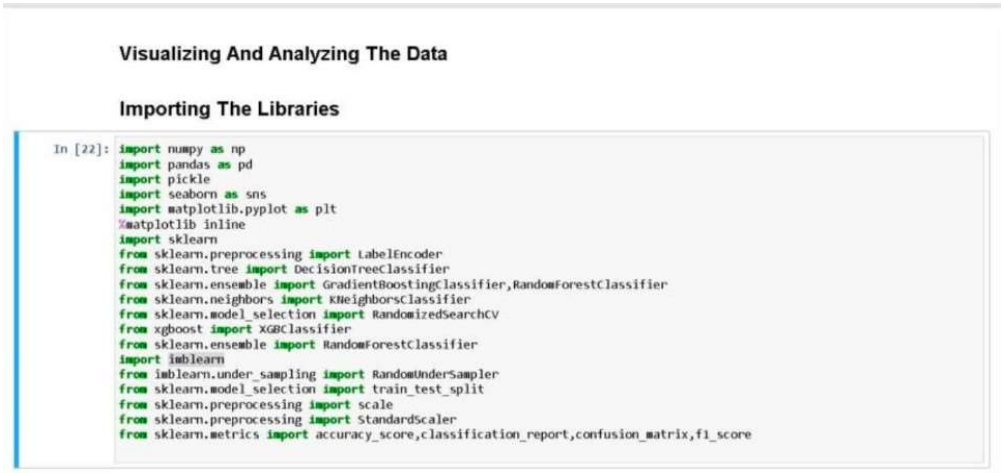
1. **Anaconda navigator:**





2. Jupyter:

3. Python packages:



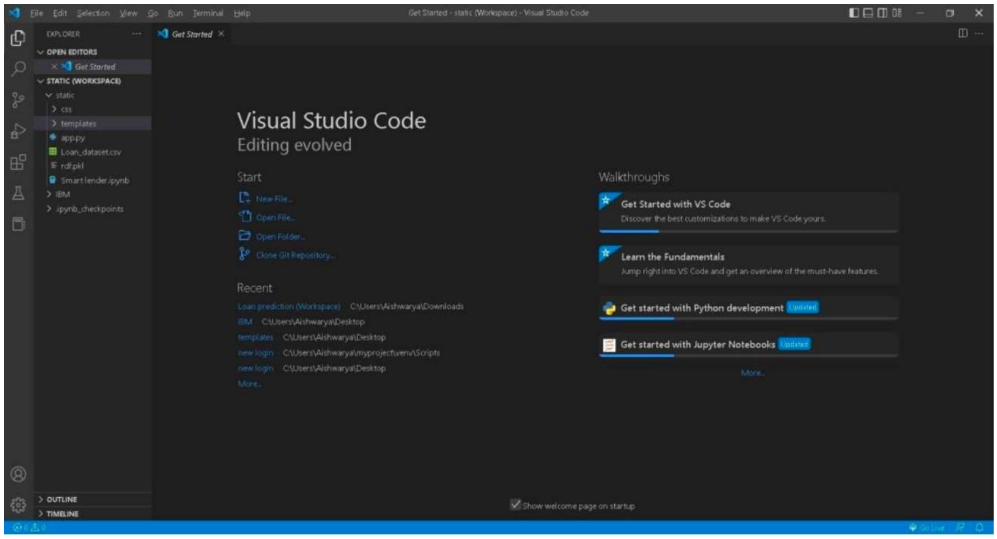
Visualizing And Analyzing The Data

Importing The Libraries

In [22]:
```
import numpy as np
import pandas as pd
import pickle
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
import sklearn
from sklearn.preprocessing import LabelEncoder
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import GradientBoostingClassifier,RandomForestClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import RandomizedSearchCV
from xgboost import XGBClassifier
from sklearn.ensemble import RandomForestClassifier
import imblearn
from imblearn.under_sampling import RandomUnderSampler
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import scale
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import accuracy_score,classification_report,confusion_matrix,f1_score
```

- Numpy
- Pandas
- Matplotlib
- Pickle
- Scikit-learn
- Seaborn

4. **IDE(VS code):**



5. Dataset
6. Flask
7. Bootstrap
8. Virtual Environment
9. MySQL