

Import the Necessary Libraries

```
✓ [1] import pandas as pd  
0s import numpy as np  
import matplotlib.pyplot as plt  
import matplotlib as mpl  
%matplotlib inline  
mpl.style.use('ggplot')
```

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[24] import seaborn as sns
```

```
[33] from sklearn.model_selection import train_test_split  
X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.2)
```

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[34] from sklearn.linear_model import LinearRegression
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▶ from sklearn.preprocessing import OneHotEncoder  
from sklearn.compose import make_column_transformer  
from sklearn.pipeline import make_pipeline  
from sklearn.metrics import r2_score
```