Used Car Prices Predicting

How To Predicting Used Car Prices?

Determining whether the listed price of a used car is a challenging task, for many factors that drive a used vehicle's price on the market. The focus of this project is developing machine learning models that can accurately predict the price of a used car based on its features

Tools

There are tools that will be used to achieve the goal of this study, such as: `matplotlib, pandas,` for discovering the data and train a model. The work will be done through Jupyter notebook.

Import library

In [1]:
```
import numpy as np  # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
```

In [2]:
```
## Uploade the Dateset From local (UsedCarsSA_UNClean_EN) The Data set is
## Downloaded From (https://www.kaggle.com/turkibintalib/saudi-arabia-used-
df = pd.read_csv("UsedCarsSA_UNClean_EN.csv")
```

Data cleaning

In [3]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 8248 entries, 0 to 8247
Data columns (total 15 columns):
 #   Column       Non-Null Count  Dtype  
---  ------       --------------  -----  
 0   Link         8248 non-null   object 
 1   Make         8248 non-null   object 
 2   Type         8248 non-null   object 
 3   Year         8248 non-null   int64  
 4   Origin       8153 non-null   object 
 5   Color        8248 non-null   object 
 6   Options      8139 non-null   object 
 7   Engine_Size  5982 non-null   float64
 8   Fuel_Type    8248 non-null   object 
 9   Gear_Type    8174 non-null   object 
 10  Condition    8248 non-null   object 
 11  Mileage      8248 non-null   int64  
 12  Region       8248 non-null   object 
 13  Price        8248 non-null   object 
 14  Negotiable   8248 non-null   bool   
dtypes: bool(1), float64(1), int64(2), object(11)
memory usage: 910.3+ KB
```

In [5]:

```
df.isnull().sum()
```

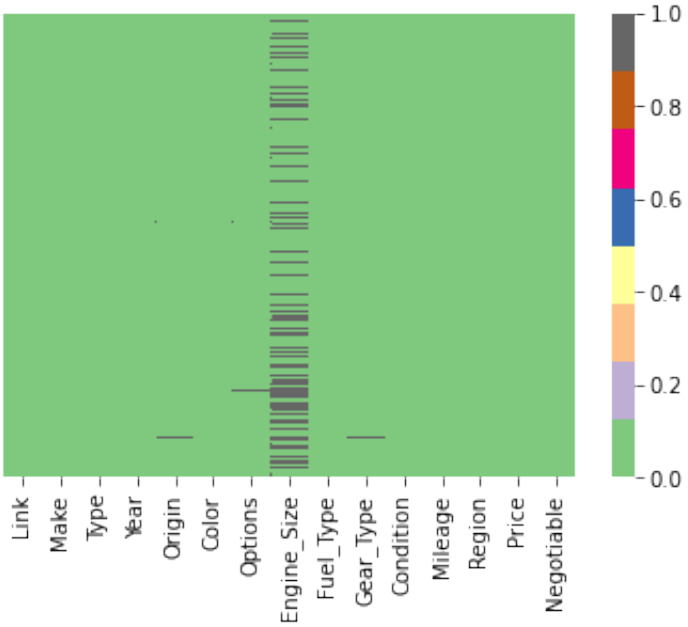
Out[5]:

```
Link             0
Make             0
Type             0
Year             0
Origin          95
Color            0
Options        109
Engine_Size   2266
Fuel_Type        0
Gear_Type       74
Condition        0
Mileage          0
Region           0
Price            0
Negotiable       0
dtype: int64
```

In [9]:

```
import seaborn as sns
sns.heatmap(df.isnull(),yticklabels=False,cbar=True,cmap='Accent')
```

Out[9]: <AxesSubplot:>



Data Analysis And Modeling

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After We Clean The Data we will see how to Predicting Prices of The car Depending on The features of the car we will use linear Regression

In [ ]: