

Date	18 November 2022
Team ID	PNT2022TMID13612
Project Name	Car Resale Value Prediction

Splitting Data into Independent and Dependent Variables :

```
X = car_dataset.drop(['Car_Name', 'Selling_Price'],axis= 1)
```

```
Y = car_dataset['Selling_Price']
```

```
print(X)
```

output  
:

	Year	Present_Price	Kms_Driven	Fuel_Type	Seller_Type	Transmission \
0	2014	5.59	27000	0	0	0
1	2013	9.54	43000	1	0	0
2	2017	9.85	6900	0 0 0 3	2011	4.15 5200 0 0 0 4
	2014	6.87	42450	1 0 0	..	
	...	...	...	...	...	296
	2016	11.60	33988	1 0 0	297	2015
	5.90	60000	0	0 0		
298	2009	11.00	87934	0	0	0
299	2017	12.50	9000	1	0	0
300	2016	5.90	5464	0	0	0

	Owner
0	0 1 0
2	0
3	0
4	0
..	...
296	0
297	0
298	0
299	0
300	0

[301 rows x 7 columns]

```
print(Y)
```

output :

0	3.35
1	4.75

```

2      7.25
3      2.85
4      4.60
...
296    9.50
297    4.00
298    3.35
299   11.50
300    5.30
Name: Selling_Price, Length: 301, dtype: float64

```

## Spilting the Training data and Test Data :

```

X_train,X_test,Y_train,Y_test = train_test_split(X,Y,test_size = 0.1,random_state =
2
)
print(X_train)

```

output :

```

      Year Present_Price Kms_Driven Fuel_Type Seller_Type Transmission \
204 2015          4.430      28282          0          0          0
249 2016          7.600      17000          0          0          0
277 2015         13.600      21780          0          0          0
194 2008          0.787      50000          0          1          0
 244 2013   9.400      49000          1          0          0 .. ... ... ...
...
 75 2015          6.800      36000          0          0          0
 22 2011          8.010      50000          0          0          1
 72 2013         18.610      56001          0          0          0
 15 2016   10.790      43000          1          0          0 168 2013   0.730      12000
    0      1      0
Owner
204      0
249      0
277      0
 194 0
      244 0
..      ...
 75      0
 22      0
 72      0
 15 0  168 0  [270 rows x 7 columns]

```

```
print(X_test)
```

Output :

	Year	Present_Price	Kms_Driven	Fuel_Type	Seller_Type	Transmission \
99	2010	20.450	50024	1	0	0 161 2014 0.826 23000
0	1	0	89 2014	6.760	40000	0 0 0
30	2012	5.980	51439	1	0	0
232	2015	14.790	12900	0	0	1
290	2014	6.400	19000	0	0	0
35	2011	7.740	49998	2	0	0
7	2015	8.610	33429	1	0	0
183	2013	0.470	21000	0	1	0
13	2015	7.710	26000	0	0	0
269	2015	10.000	18828	0	0	0 65 2014 6.950 45000
1	0	0	178 2014	0.520	19000	0 1 1
258	2015	13.600	25000	0	0	0 227 2011 4.430 57000
0	0	0	133 2016	0.950	500	0 1 0
130	2017	0.870	11000	0	1	0
156	2017	0.520	15000	0	1	0
237	2015	13.600	68000	1	0	0
262	2015	5.800	40023	0	0	0
112	2014	2.400	7000	0	1	0 282 2014 14.000 63000 1
0	0	0	164 2016	0.540	14000	0 1 0
275	2016	13.600	30753	0	0	1 154 2014 0.880 8000 0
1	0	29 2015	10.380	45000	1	0 0
141	2016	0.800	20000	0	1	0 192 2007 0.750 49000
0	1	0	216 2016	4.430	12500	0 0 0
3	2011	4.150	5200	0	0	0
159	2017	0.510	4000	0	1	1

Owner

99	0 161 0
89	0
30	0
232	0
290	0
35	0
7	0
183	0
13	0
269	0
65	0
178	0
258	0
227	0
133	0
130	0
156	0
237	0
262	0
112	0
282	0
164	0

275	0
154	0
29	0
141	0
192	1
216	0
3	0
159	0

```
print(Y_train)
```

**output :**

204	2.75
249	5.25
277	9.70
194	0.20
244	5.95

...

75	3.95
22	4.40
72	7.45
15	7.75
168	0.42

**Name: Selling\_Price, Length: 270, dtype: float64**

```
print(Y_test)
```

**output :**

99	9.65
161	0.45
89	4.75
30	3.10
232	11.45
290	4.50
35	2.95
7	6.50
183	0.27
13	6.10
269	6.70
65	4.75
178	0.35
258	8.40
227	2.55
133	0.72
130	0.75
156	0.48
237	11.25
262	4.00
112	1.15
282	8.25
164	0.45
275	10.90
154	0.50
29	7.45

141	0.60
192	0.20
216	2.90
3	2.85
159	0.45

Name: Selling\_Price, dtype: float64