Car Resales Price Prediction

Splitting Data into Independent and Dependent Variables

1. = car\_dataset.drop(['Car\_Name','Selling\_Price'],axis= 1)
2. = car\_dataset['Selling\_Price']

print(X) output :

Year Present\_Price Kms\_Driven Fuel\_Type Seller\_Type Transmission \

1. 2014 5.59 27000 0 0 0
2. 2013 9.54 43000 1 0 0
3. 2017 9.85 6900 0 0 0
4. 2011 4.15 5200 0 0 0
5. 2014 6.87 42450 1 0 0 .. ... ... ... ... ... ...
6. 2016 11.60 33988 1 0 0
7. 2015 5.90 60000 0 0 0
8. 2009 11.00 87934 0 0 0
9. 2017 12.50 9000 1 0 0 300 2016 5.90 5464 0 0 0

Owner

1. 0
2. 0
3. 0
4. 0
5. 0 .. ...
6. 0
7. 0
8. 0
9. 0
10. 0

[301 rows x 7 columns]

print(Y)

output :

1. 3.35
2. 4.75
3. 7.25
4. 2.85
5. 4.60 ...
6. 9.50
7. 4.00
8. 3.35
9. 11.50
10. 5.30

Name: Selling\_Price, Length: 301, dtype: float64

Spiltting 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

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