	<pre>import numpy as np df = pd.read_csv(r'https://github.com/YBI-Foundation/Dataset/raw/main/Car%20Price.csv')</pre>
	ar = parroad_cov(r neeps.//grends.com/rbr rodindaeron/bacasec/raw/marn/our/sec-cov/)
Out[5]:	<pre>df.head()</pre>
	Brand Model Year Selling_Price KM_Driven Fuel Seller_Type Transmission Owner Maruti 800 AC 2007 60000 70000 Petrol Individual Manual First Owner
	1MarutiMarutiWagon R LXI Minor200713500050000PetrolIndividualManualFirst Owner2HyundaiVerna 1.6 SX2012600000100000DieselIndividualManualFirst Owner3DatsunDatsun RediGO T Option201725000046000PetrolIndividualManualFirst Owner
	3 Datsun Datsun RediGO T Option 2017 250000 46000 Petrol Individual Manual First Owner 4 Honda Honda Amaze VX i-DTEC 2014 450000 141000 Diesel Individual Manual Second Owner
In [6]:	<pre>df.info() <class 'pandas.core.frame.dataframe'=""></class></pre>
	RangeIndex: 4340 entries, 0 to 4339 Data columns (total 9 columns): # Column Non-Null Count Dtype
	0 Brand 4340 non-null object 1 Model 4340 non-null object 2 Year 4340 non-null int64
	2 Year 4340 Non-Null INC64 3 Selling_Price 4340 non-null int64 4 KM_Driven 4340 non-null int64 5 Fuel 4340 non-null object
	6 Seller_Type 4340 non-null object 7 Transmission 4340 non-null object 8 Owner 4340 non-null object
	dtypes: int64(3), object(6) memory usage: 305.3+ KB
	<pre>df = df.dropna() df.describe()</pre>
Out[8]:	Year Selling_Price KM_Driven
	count 4340.000000 4.340000e+03 4340.000000 mean 2013.090783 5.041273e+05 66215.777419
	std 4.215344 5.785487e+05 46644.102194 min 1992.000000 2.000000e+04 1.000000
	25 % 2011.000000 2.087498e+05 35000.000000 50 % 2014.000000 3.500000e+05 60000.000000
	75% 2016.000000 6.000000e+05 90000.000000 max 2020.000000 8.900000e+06 806599.000000
In [9]:	df[['Brand']].value_counts()
Out[9]:	Brand Maruti 1280 Hyundai 821
	Mahindra 365 Tata 361 Honda 252
	Ford 238 Toyota 206 Chevrolet 188
	Renault 146 Volkswagen 107 Skoda 68 Nissan 64
	Audi 60 BMW 39 Fiat 37
	Datsun 37 Mercedes-Benz 35 Mitsubishi 6
	Jaguar 6 Land 5 Ambassador 4
	Volvo 4 Jeep 3 OpelCorsa 2
	MG 2 Isuzu 1 Force 1 Daewoo 1
	Kia 1 dtype: int64
<pre>In [10]: Out[10]:</pre>	<pre>df[['Model']].value_counts() Model Maruti Swift Dzire VDI 69</pre>
	Maruti Swift Dzire VDI 69 Maruti Alto 800 LXI 59 Maruti Alto LXi 47 Hyundai EON Era Plus 35
	Maruti Alto LX 35 Mahindra KUV 100 G80 K4 Plus 1
	Mahindra KUV 100 mFALCON D75 K8 1 Mahindra KUV 100 mFALCON D75 K8 AW 1 Mahindra KUV 100 mFALCON G80 K2 Plus 1
	Volvo XC60 D5 Inscription 1 Length: 1491, dtype: int64
<pre>In [11]: Out[11]:</pre>	<pre>df[['Fuel']].value_counts() Fuel Diesel 2153</pre>
	Petrol 2123 CNG 40 LPG 23
	Electric 1 dtype: int64
<pre>In [12]: Out[12]:</pre>	<pre>df[['Seller_Type']].value_counts() Seller_Type Individual 3244</pre>
-	Individual 3244 Dealer 994 Trustmark Dealer 102 dtype: int64
In [13]:	df[['Transmission']].value_counts()
Out[13]:	Transmission Manual 3892 Automatic 448 dtype: int64
In [14]:	df[['Owner']].value_counts()
Out[14]:	Owner First Owner 2832 Second Owner 1106 Third Owner 304
	Third Owner 304 Fourth & Above Owner 81 Test Drive Car 17
In [15]:	<pre>dtype: int64 #df[['Fuel', 'Seller_Type', 'Transmission', 'Owner']].value_counts()</pre>
	<pre>df.columns Index(['Brand', 'Model', 'Year', 'Selling_Price', 'KM_Driven', 'Fuel',</pre>
Out[16]:	'Seller_Type', 'Transmission', 'Owner'], dtype='object')
	df.shape (4340, 9)
	<pre>df.replace({'Fuel':{'Petrol':0,'Diesel':1,'CNG':2, 'LPG': 3, 'Electric':4}},inplace=True)</pre>
	<pre>df.replace({'Seller_Type':{'Individual':0,'Dealer':1,'Trustmark Dealer':2}},inplace=True)</pre>
	<pre>df.replace({'Transmission':{'Manual':0, 'Automatic':1}}, inplace=True) df.replace({'Owner':{'First Owner':0, 'Second Owner':1, 'Third Owner': 2, 'Fourth & Above Owner':3, 'Test Drive Car':4}}, inplace=True)</pre>
	<pre>#x = pd.get_dummies (x, columns=['Fuel', 'Seller_Type', 'Transmission', 'Owner'], drop_first=True)</pre>
	y =df['Selling_Price']
In [25]: Out[25]:	
In [26]:	
Out[26]:	1 135000 2 600000 3 250000
	4 450000 4335 409999
	4336 409999 4337 110000 4338 865000 4339 225000
	Name: Selling_Price, Length: 4340, dtype: int64 x = df[['Year', 'KM_Driven', 'Fuel', 'Seller_Type', 'Transmission', 'Owner']]
In [30]:	
Out[30]: In [31]:	(4340, 6) x
Out[31]:	
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 0
	0 2007 70000 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0 4 2014 141000 1 0 0 1
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0 4 2014 141000 1 0 0 1 4335 2014 80000 1 0 0 1 4336 2014 80000 1 0 0 1
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0 4 2014 141000 1 0 0 1 4335 2014 80000 1 0 0 1 4336 2014 80000 1 0 0 1 4337 2009 83000 0 0 0 0 4338 2016 90000 1 0 0 0
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0 4 2014 141000 1 0 0 1 4335 2014 80000 1 0 0 1 4336 2014 80000 1 0 0 1 4337 2009 83000 0 0 0 1
	0 2007 70000 0 0 0 0 1 2007 50000 0 0 0 0 2 2012 100000 1 0 0 0 3 2017 46000 0 0 0 0 4 2014 141000 1 0 0 1 4335 2014 80000 1 0 0 1 4336 2014 80000 1 0 0 1 4338 2016 90000 1 0 0 0 4339 2016 40000 0 0 0 0
In [32]: In [33]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]:	0 2007 7000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
<pre>In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]: Out[37]:</pre>	0 2007
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: Out[37]: Out[37]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]: Out[37]: In [38]: In [39]:	0 2007 70000 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]: Out[37]: In [38]: In [39]: Out[39]: In [40]:	0 2007 70000 0 0 0 0 0 0 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]: Out[37]: In [38]: In [39]: Out[40]: Out[40]:	0 2077 70000 0 0 0 0 0 0 0
In [32]: In [33]: In [34]: Out[34]: In [35]: In [36]: In [37]: Out[37]: Out[37]: In [40]: Out[40]: In [41]: In [42]:	0
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