```
In [1]:
            1 import pandas as pd
In [2]:
            1 import numpy as np
In [3]:
            1 data=pd.read csv("/home/placement/Downloads/fiat500.csv")
In [4]:
            1 data.describe()
Out[4]:
                          ID engine_power age_in_days
                                                                 km previous_owners
                                                                                             lat
                                                                                                         lon
                                                                                                                    price
           count 1538.000000
                                                                         1538.000000 1538.000000
                                                                                                              1538.000000
                               1538.000000
                                           1538.000000
                                                         1538.000000
                                                                                                 1538.000000
                  769.500000
                                 51.904421
                                           1650.980494
                                                        53396.011704
                                                                            1.123537
                                                                                       43.541361
                                                                                                   11.563428
                                                                                                              8576.003901
           mean
                                                                                                    2.328190
                  444.126671
                                  3.988023
                                           1289.522278
                                                        40046.830723
                                                                            0.416423
                                                                                        2.133518
                                                                                                              1939.958641
             std
                    1.000000
                                 51.000000
                                            366.000000
                                                         1232.000000
                                                                            1.000000
                                                                                       36.855839
                                                                                                    7.245400
                                                                                                              2500.000000
            min
            25%
                  385.250000
                                 51.000000
                                            670.000000
                                                        20006.250000
                                                                            1.000000
                                                                                       41.802990
                                                                                                    9.505090
                                                                                                              7122.500000
            50%
                  769.500000
                                           1035.000000
                                                        39031.000000
                                                                            1.000000
                                                                                       44.394096
                                                                                                   11.869260
                                                                                                              9000.000000
                                 51.000000
            75%
                 1153.750000
                                 51.000000
                                           2616.000000
                                                        79667.750000
                                                                            1.000000
                                                                                       45.467960
                                                                                                   12.769040 10000.000000
            max 1538.000000
                                                                            4.000000
                                                                                       46.795612
                                 77.000000 4658.000000 235000.000000
                                                                                                   18.365520 11100.000000
In [5]:
            1 a=[101,103,107,109,113,127]
            2 print(a)
          [101, 103, 107, 109, 113, 127]
In [6]:
            1 import pandas as pd
            2 import pickle
In [7]:
            1 data=pd.read csv("/home/placement/Downloads/fiat500.csv")
```

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```
In [8]:
            1 data.head()
 Out[8]:
             ID model engine_power age_in_days
                                                 km previous_owners
                                                                          lat
                                                                                   lon price
           0 1 lounge
                                51
                                          882
                                               25000
                                                                  1 44.907242
                                                                              8.611560
                                                                                      8900
              2
                                51
                                         1186
                                               32500
                                                                  1 45.666359 12.241890
                                                                                      8800
                   pop
                                                                  1 45.503300 11.417840 4200
           2
              3
                                74
                                         4658 142228
                  sport
                                51
                                                                  1 40.633171 17.634609 6000
                lounge
                                          2739
                                              160000
                                73
           4 5
                                         3074 106880
                                                                  1 41.903221 12.495650 5700
                   pop
 In [9]:
            1 list(data)
 Out[9]: ['ID',
            'model',
            'engine power',
            'age_in_days',
            'km',
            'previous owners',
            'lat',
            'lon',
            'price']
            1 data['model'] = data['model'].map({'lounge':1,'pop':2,'sport':3})
In [10]:
```

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In [11]:

1 data

Out[11]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
0	1	1	51	882	25000	1	44.907242	8.611560	8900
1	2	2	51	1186	32500	1	45.666359	12.241890	8800
2	3	3	74	4658	142228	1	45.503300	11.417840	4200
3	4	1	51	2739	160000	1	40.633171	17.634609	6000
4	5	2	73	3074	106880	1	41.903221	12.495650	5700
1533	1534	3	51	3712	115280	1	45.069679	7.704920	5200
1534	1535	1	74	3835	112000	1	45.845692	8.666870	4600
1535	1536	2	51	2223	60457	1	45.481541	9.413480	7500
1536	1537	1	51	2557	80750	1	45.000702	7.682270	5990
1537	1538	2	51	1766	54276	1	40.323410	17.568270	7900

1538 rows × 9 columns

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In [12]:

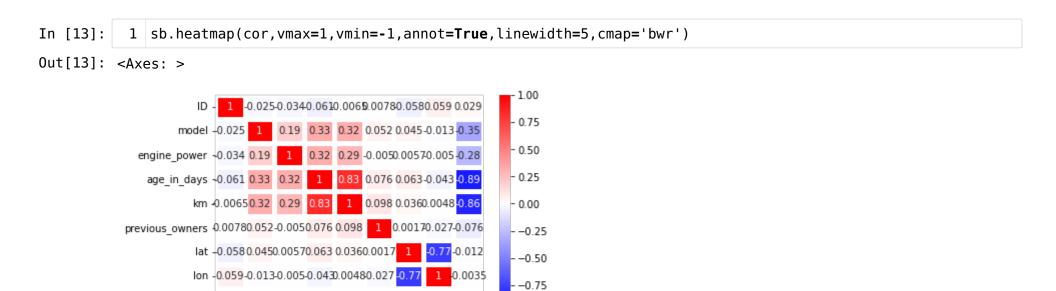
1 import seaborn as sb
2 cor=data.corr()

3 cor

Out[12]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon	price
ID	1.000000	-0.024740	-0.034059	-0.060753	-0.006537	0.007803	-0.058207	0.058941	0.028516
model	-0.024740	1.000000	0.189906	0.326508	0.319580	0.052480	0.044901	-0.013200	-0.349885
engine_power	-0.034059	0.189906	1.000000	0.319190	0.285495	-0.005030	0.005721	-0.005032	-0.277235
age_in_days	-0.060753	0.326508	0.319190	1.000000	0.833890	0.075775	0.062982	-0.042667	-0.893328
km	-0.006537	0.319580	0.285495	0.833890	1.000000	0.097539	0.035519	0.004839	-0.859373
previous_owners	0.007803	0.052480	-0.005030	0.075775	0.097539	1.000000	0.001697	-0.026836	-0.076274
lat	-0.058207	0.044901	0.005721	0.062982	0.035519	0.001697	1.000000	-0.766646	-0.011733
lon	0.058941	-0.013200	-0.005032	-0.042667	0.004839	-0.026836	-0.766646	1.000000	-0.003541
price	0.028516	-0.349885	-0.277235	-0.893328	-0.859373	-0.076274	-0.011733	-0.003541	1.000000

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In [ ]: 1

-1.00

price

at

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price -0.029 -0.35 -0.28 -0.89 -0.86 -0.076-0.0120.0035

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