fiat qstn about:srcdoc

```
In [1]: import pandas as pd
In [3]: data = pd.read csv("/home/placement/Downloads/fiat500.csv")
In [5]: data.describe()
                         ID engine_power age_in_days
                                                                  km previous_owners
Out[5]:
                                                                                                 lat
                                                                                                            lon
                                                                                                                         price
         count 1538.000000
                              1538.000000
                                           1538.000000
                                                          1538.000000
                                                                           1538.000000 1538.000000
                                                                                                    1538.000000
                                                                                                                  1538.000000
                                                                              1.123537
                 769.500000
                                 51.904421
                                           1650.980494
                                                         53396.011704
                                                                                          43.541361
                                                                                                      11.563428
                                                                                                                  8576.003901
          mean
            std
                 444.126671
                                  3.988023
                                           1289.522278
                                                         40046.830723
                                                                              0.416423
                                                                                           2.133518
                                                                                                        2.328190
                                                                                                                  1939.958641
                   1.000000
                                 51.000000
                                            366.000000
                                                          1232.000000
                                                                              1.000000
                                                                                          36.855839
                                                                                                       7.245400
                                                                                                                  2500.000000
           min
                 385.250000
                                51.000000
                                            670.000000
                                                         20006.250000
                                                                                          41.802990
                                                                                                       9.505090
           25%
                                                                              1.000000
                                                                                                                  7122.500000
           50%
                 769.500000
                                51.000000
                                           1035.000000
                                                         39031.000000
                                                                              1.000000
                                                                                          44.394096
                                                                                                       11.869260
                                                                                                                  9000.000000
                                           2616.000000
                                                                              1.000000
                                                                                          45.467960
           75% 1153.750000
                                 51.000000
                                                         79667.750000
                                                                                                      12.769040
                                                                                                                 10000.000000
           max 1538.000000
                                                                              4.000000
                                                                                          46.795612
                                 77.000000
                                           4658.000000
                                                        235000.000000
                                                                                                       18.365520 11100.000000
In [6]: list(data)
Out[6]: ['ID',
           'model',
           'engine power',
           'age in days',
           'km',
           'previous owners',
           'lat',
           'lon',
           'price']
         data.head()
In [7]:
```

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[7]:	I	D	model	engin	e_power	age_i	in_days	kr	n prev	ious_owners		lat		lon	price	
(0	1	lounge		51		882	2500	0	1	44.90)7242	8.61	1560	8900	_
1	1	2	pop		51		1186	3250	0	1	45.66	6359	12.24	1890	8800	
2	2	3	sport		74		4658	14222	8	1	45.50	03300	11.41	7840	4200	
3	3	4	lounge		51		2739	16000	0	1	40.63	33171	17.63	4609	6000	
4	4	5	pop		73		3074	10688	0	1	41.90	3221	12.49	5650	5700	
11.	1-+-	ر ا ا د	'modol'	1 – d	2+2[!mag	101 1 1	man/[l	Lounge	1 ln	on! 12 lenor	+1.21	1 \				
9]: c	Jaco	a [modet] = u	atal moc	iet j.	illap ({	counge	: :1, p	op':2,'spor	L :3]	<i>})</i>				
.0]: c	data	a														
.0]:			ID				!	dave	Irma				1-4			prioc
LU].			ID m	nodel	engine_p	ower	age_in_	aays	KIII	previous_ov	ners		lat		lon	price
	(0	1 1 T	nodel 1	engine_p	51	age_in_	882	25000	previous_ov	ners 1	44.90		8.61		8900
		0			engine_p					previous_ov	1	44.90 45.66	7242		1560	
10]	1		1	1	engine_p	51		882 1186	25000	previous_ov	1		7242	12.24	1560 1890	8900
10].	1	1	1 2	1 2	engine_p	51 51		882 1186 4658	25000 32500	previous_ov	1 1 1	45.66	7242 66359 3300	12.24	1560 1890 7840	8900 8800
	1 2 3	1	1 2 3	1 2 3	engine_p	51 51 74		882 1186 4658 2739	25000 32500 142228	previous_ov	1 1 1	45.66 45.50	7242 6359 3300 3171	12.24 11.41	1560 1890 7840 4609	8900 8800 4200
10].	1 2 3	1 2 3 4	1 2 3 4	1 2 3 1	engine_p	51 51 74 51		882 1186 4658 2739	25000 32500 142228 160000	previous_ov	1 1 1	45.66 45.50 40.63	7242 6359 3300 3171	12.24 11.41 17.63	1560 1890 7840 4609	8900 8800 4200 6000
	3 2	1 2 3 4	1 2 3 4 5	1 2 3 1 2	engine_p	51 51 74 51 73		882 1186 4658 2739 3074	25000 32500 142228 160000 106880	previous_ov	1 1 1 1	45.66 45.50 40.63	7242 6359 3300 3171 3221	12.24 11.41 17.63	1560 1890 7840 4609 5650	8900 8800 4200 6000 5700

1538 rows × 9 columns

1536

1537

1538

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1 45.481541 9.413480 7500

1 45.000702 7.682270 5990

1 40.323410 17.568270 7900

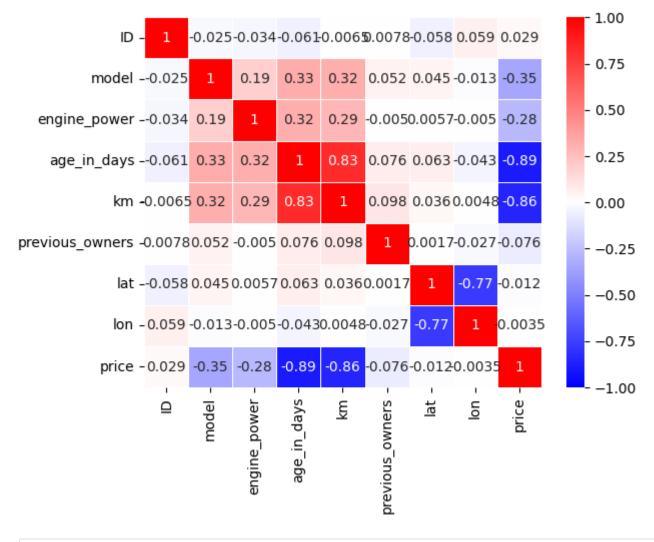
```
In [11]: cor = data.corr()
In [12]: cor
                                  ID
                                         model engine_power age_in_days
                                                                                                              lat
                                                                                                                                price
Out[12]:
                                                                                  km previous owners
                                                                                                                        lon
                            1.000000
                                      -0.024740
                                                                            -0.006537
                                                                                                                             0.028516
                        ID
                                                     -0.034059
                                                                  -0.060753
                                                                                              0.007803
                                                                                                       -0.058207
                                                                                                                   0.058941
                    model -0.024740
                                      1.000000
                                                     0.189906
                                                                  0.326508
                                                                            0.319580
                                                                                              0.052480
                                                                                                        0.044901 -0.013200
                                                                                                                            -0.349885
             engine_power -0.034059
                                                                                              -0.005030
                                       0.189906
                                                     1.000000
                                                                  0.319190
                                                                             0.285495
                                                                                                         0.005721 -0.005032 -0.277235
               age in days -0.060753
                                                     0.319190
                                                                  1.000000
                                                                             0.833890
                                                                                              0.075775
                                                                                                        0.062982
                                                                                                                  -0.042667
                                                                                                                            -0.893328
                                       0.326508
                           -0.006537
                                      0.319580
                                                     0.285495
                                                                  0.833890
                                                                             1.000000
                                                                                              0.097539
                                                                                                        0.035519
                                                                                                                   0.004839
                                                                                                                            -0.859373
          previous owners
                            0.007803
                                                     -0.005030
                                                                  0.075775
                                                                             0.097539
                                                                                              1.000000
                                                                                                        0.001697 -0.026836
                                                                                                                            -0.076274
                                       0.052480
                        lat -0.058207
                                                                                                        1.000000 -0.766646 -0.011733
                                                                  0.062982
                                       0.044901
                                                     0.005721
                                                                             0.035519
                                                                                              0.001697
                            0.058941 -0.013200
                                                     -0.005032
                                                                  -0.042667
                                                                             0.004839
                                                                                              -0.026836
                                                                                                       -0.766646
                                                                                                                   1.000000
                                                                                                                            -0.003541
                       lon
                            0.028516 -0.349885
                                                     -0.277235
                                                                  -0.893328 -0.859373
                                                                                              -0.076274 -0.011733 -0.003541
                      price
                                                                                                                            1.000000
```

In [14]: import seaborn as sns
sns.heatmap(cor,vmax=1,vmin=-1,annot=True,linewidth=.5,cmap='bwr')

Out[14]: <Axes: >

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In []:

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