

```
In [2]: import pandas as pd
data=pd.read_csv("/home/placement/Downloads/fiat500.csv")
print(data)
```

	ID	model	engine_power	age_in_days	km	previous_owners	\
0	1	lounge	51	882	25000	1	
1	2	pop	51	1186	32500	1	
2	3	sport	74	4658	142228	1	
3	4	lounge	51	2739	160000	1	
4	5	pop	73	3074	106880	1	
...
1533	1534	sport	51	3712	115280	1	
1534	1535	lounge	74	3835	112000	1	
1535	1536	pop	51	2223	60457	1	
1536	1537	lounge	51	2557	80750	1	
1537	1538	pop	51	1766	54276	1	

	lat	lon	price
0	44.907242	8.611560	8900
1	45.666359	12.241890	8800
2	45.503300	11.417840	4200
3	40.633171	17.634609	6000
4	41.903221	12.495650	5700
...
1533	45.069679	7.704920	5200
1534	45.845692	8.666870	4600
1535	45.481541	9.413480	7500
1536	45.000702	7.682270	5990
1537	40.323410	17.568270	7900

[1538 rows x 9 columns]

```
In [3]: data1=data.drop(columns='model')
```

In [4]: data1

Out[4]:

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

1538 rows × 8 columns

In [5]: cor=data1.corr()

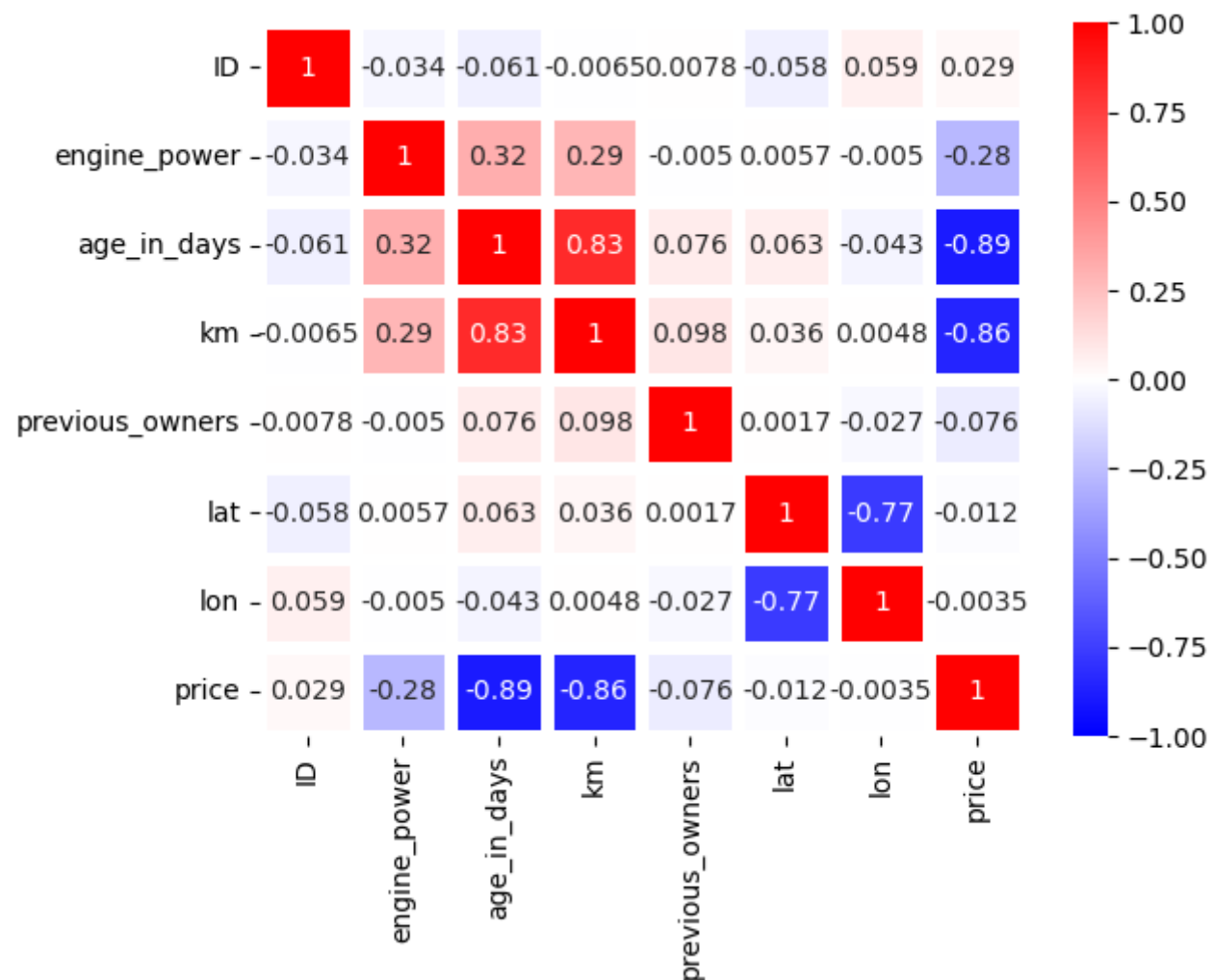
In [6]: cor

Out[6]:

	ID	engine_power	age_in_days	km	previous_owners	lat	lon	price
ID	1.000000	-0.034059	-0.060753	-0.006537	0.007803	-0.058207	0.058941	0.028516
engine_power	-0.034059	1.000000	0.319190	0.285495	-0.005030	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
km	-0.006537	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
lat	-0.058207	0.005721	0.062982	0.035519	0.001697	1.000000	-0.766646	-0.011733
lon	0.058941	-0.005032	-0.042667	0.004839	-0.026836	-0.766646	1.000000	-0.003541
price	0.028516	-0.277235	-0.893328	-0.859373	-0.076274	-0.011733	-0.003541	1.000000

```
In [17]: import seaborn as sns
sns.heatmap(cor, vmax=1, vmin=-1, annot=True, linewidth=5, cmap='bwr')
```

Out[17]: <Axes: >



In []: