

Data Visualization for fiat500_Vehicle_Dataset

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importing libraries

```
In [1]: import numpy as np
import pandas as pd
```

importing dataset

```
In [2]: data=pd.read_csv(r"C:\Users\user\Desktop\phase 2\fiat500_VehicleSelection_Dataset\data")
```

Out[2]:

	ID	model	engine_power	age_in_days	km	previous_owners	lat	lon
0	1.0	lounge	51.0	882.0	25000.0	1.0	44.907242	8.61155986
1	2.0	pop	51.0	1186.0	32500.0	1.0	45.666359	12.24188995
2	3.0	sport	74.0	4658.0	142228.0	1.0	45.503300	11.41784
3	4.0	lounge	51.0	2739.0	160000.0	1.0	40.633171	17.63460922
4	5.0	pop	73.0	3074.0	106880.0	1.0	41.903221	12.49565029
...
1544	NaN	NaN	NaN	NaN	NaN	NaN	NaN	length
1545	NaN	NaN	NaN	NaN	NaN	NaN	NaN	conca
1546	NaN	NaN	NaN	NaN	NaN	NaN	NaN	Null values
1547	NaN	NaN	NaN	NaN	NaN	NaN	NaN	finc
1548	NaN	NaN	NaN	NaN	NaN	NaN	NaN	search

1549 rows × 11 columns



working with specific cells

```
In [4]: data=data[['km', 'lat']]
data
```

Out[4]:

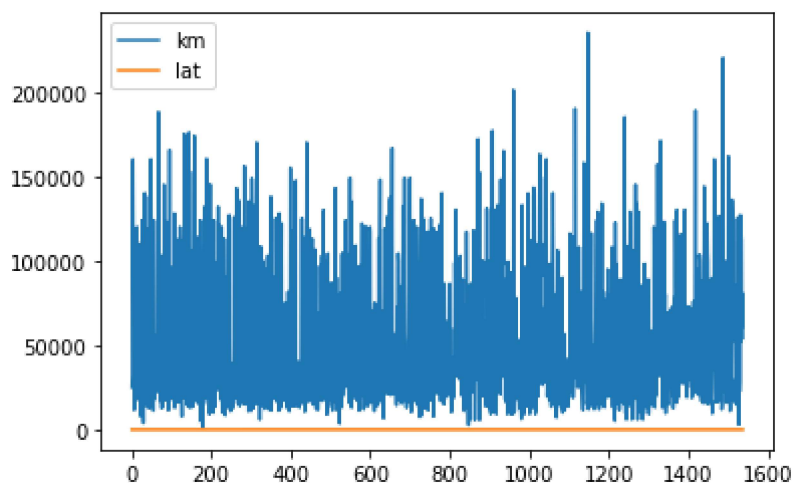
	km	lat
0	25000.0	44.907242
1	32500.0	45.666359
2	142228.0	45.503300
3	160000.0	40.633171
4	106880.0	41.903221
...
1544	NaN	NaN
1545	NaN	NaN
1546	NaN	NaN
1547	NaN	NaN
1548	NaN	NaN

1549 rows × 2 columns

line chart

```
In [5]: data.plot.line()
```

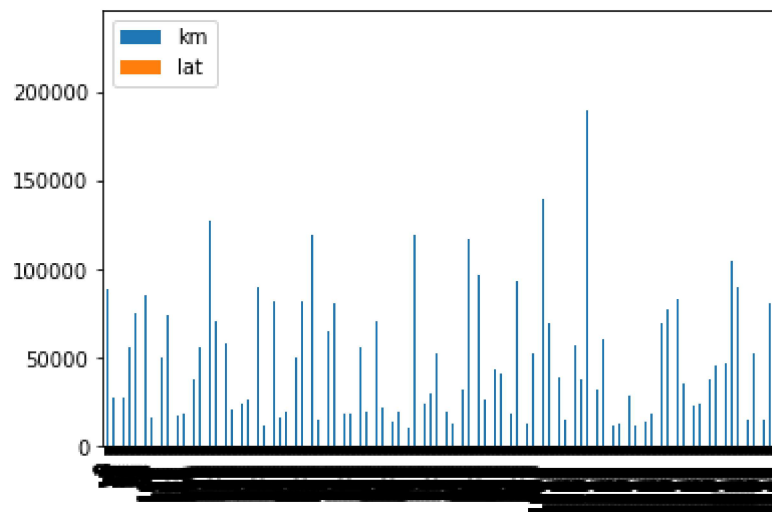
Out[5]: <AxesSubplot:>



barchart

```
In [7]: data.plot.bar()
```

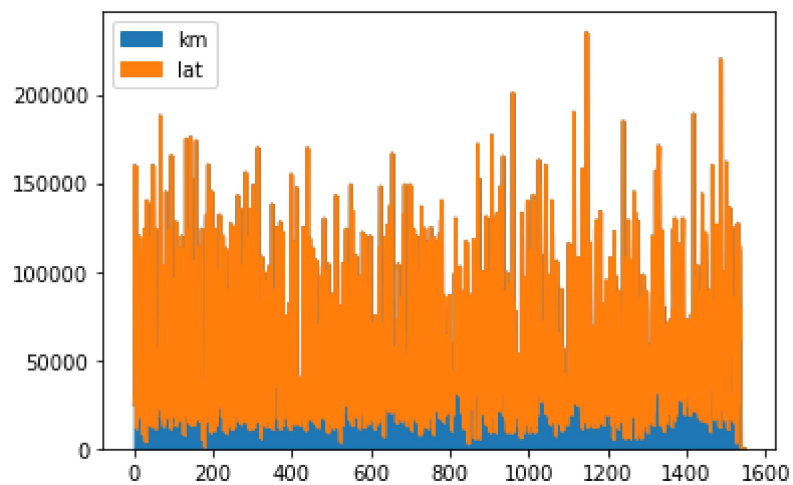
```
Out[7]: <AxesSubplot:>
```



areaplot

```
In [14]: data.plot.area()
```

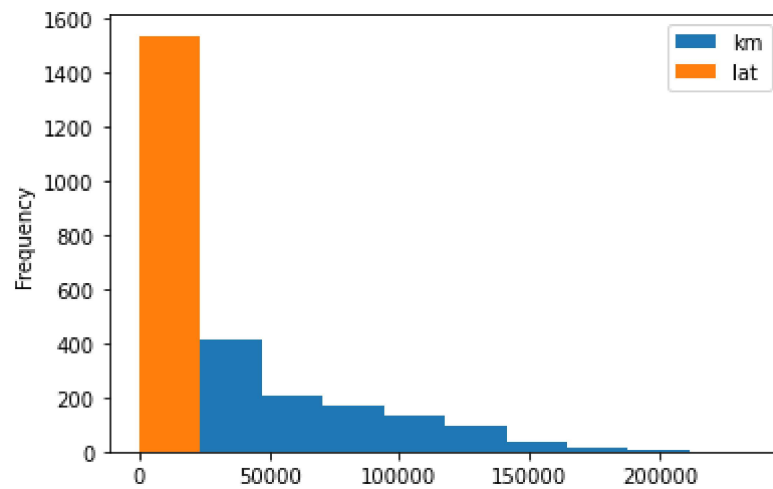
```
Out[14]: <AxesSubplot:>
```



histogram

```
In [10]: data.plot.hist()
```

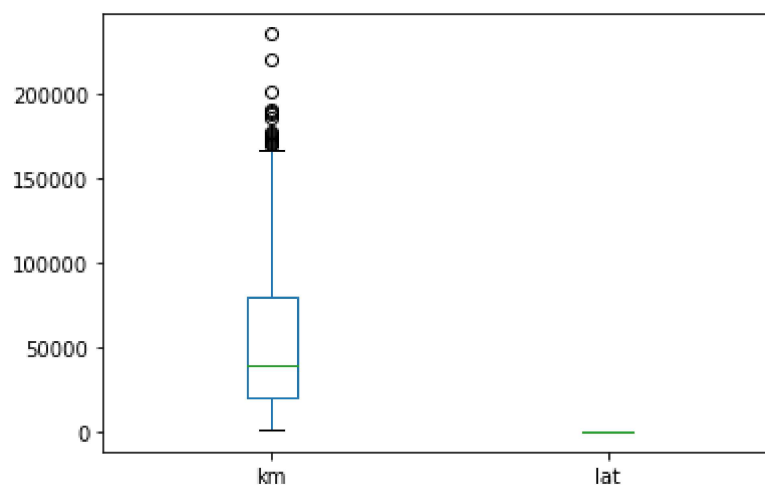
```
Out[10]: <AxesSubplot:ylabel='Frequency'>
```



boxplot

```
In [11]: data.plot.box()
```

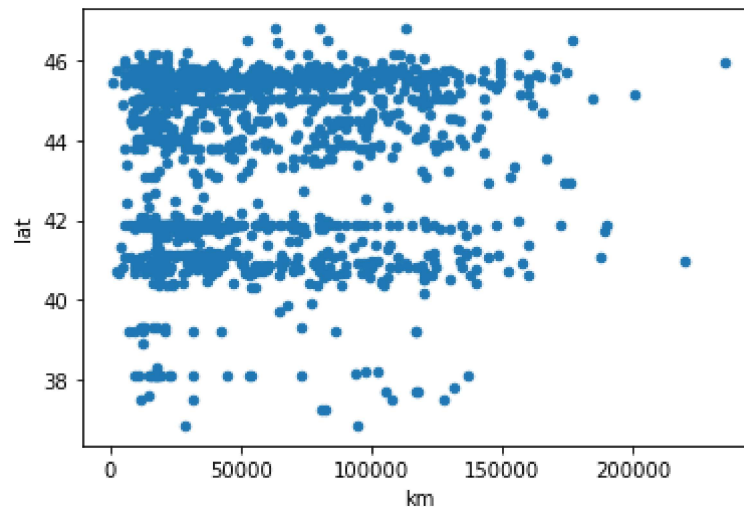
```
Out[11]: <AxesSubplot:>
```



scatter plot

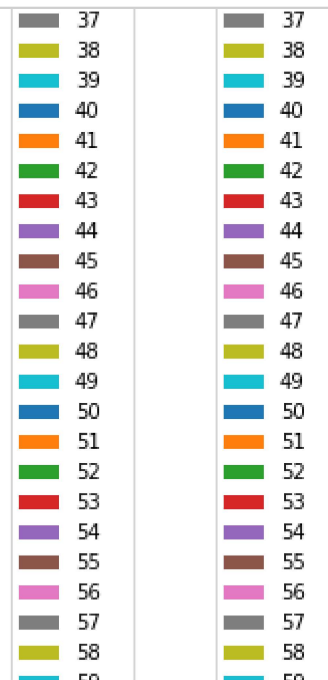
```
In [12]: data.plot.scatter(x="km",y="lat")
```

```
Out[12]: <AxesSubplot:xlabel='km', ylabel='lat'>
```



pie chart

```
In [13]: data.plot.pie(subplots=True)
```



```
In [ ]:
```

```
In [ ]:
```

