

```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
# Uni Variate Analysis
```

```
data = pd.read_csv('/content/House Price India.csv')
print(data.head())
```

	id	Date	number of bedrooms	number of bathrooms	living area	\
0	6762810145	42491	5	2.50	3650	
1	6762810635	42491	4	2.50	2920	
2	6762810998	42491	5	2.75	2910	
3	6762812605	42491	4	2.50	3310	
4	6762812919	42491	3	2.00	2710	

	lot area	number of floors	waterfront present	number of views	\
0	9050	2.0	0	4	
1	4000	1.5	0	0	
2	9480	1.5	0	0	
3	42998	2.0	0	0	
4	4500	1.5	0	0	

	condition of the house	...	Built Year	Renovation Year	Postal Code	\
0	5	...	1921	0	122003	
1	5	...	1909	0	122004	
2	3	...	1939	0	122004	
3	3	...	2001	0	122005	
4	4	...	1929	0	122006	

	Latitude	Longitude	living_area_renov	lot_area_renov	\
0	52.8645	-114.557	2880	5400	
1	52.8878	-114.470	2470	4000	
2	52.8852	-114.468	2940	6600	
3	52.9532	-114.321	3350	42847	
4	52.9047	-114.485	2060	4500	

	Number of schools nearby	Distance from the airport	Price
0	2	58	2380000
1	2	51	1400000
2	1	53	1200000
3	3	76	838000
4	1	51	805000

[5 rows x 23 columns]

```
data.head()
```

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0	3
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0	4

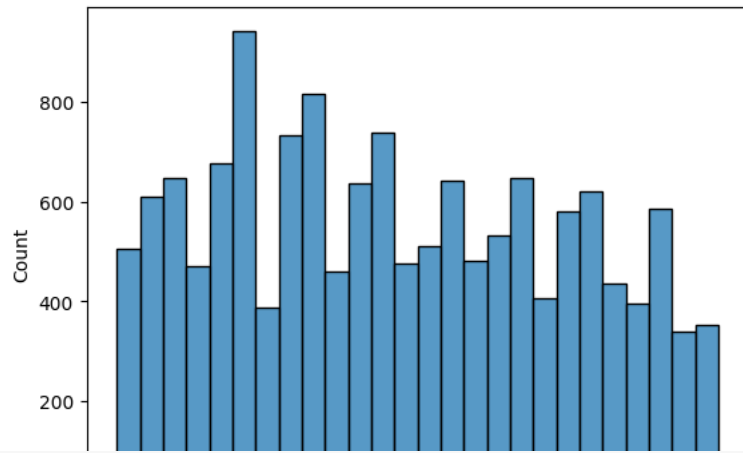
5 rows x 23 columns

```
data.shape
```

(14620, 23)

```
sns.histplot(data['Date'])
```

<Axes: xlabel='Date', ylabel='Count'>



```
sns.distplot(data.Date)
sns.distplot(data.Lattitude)
```

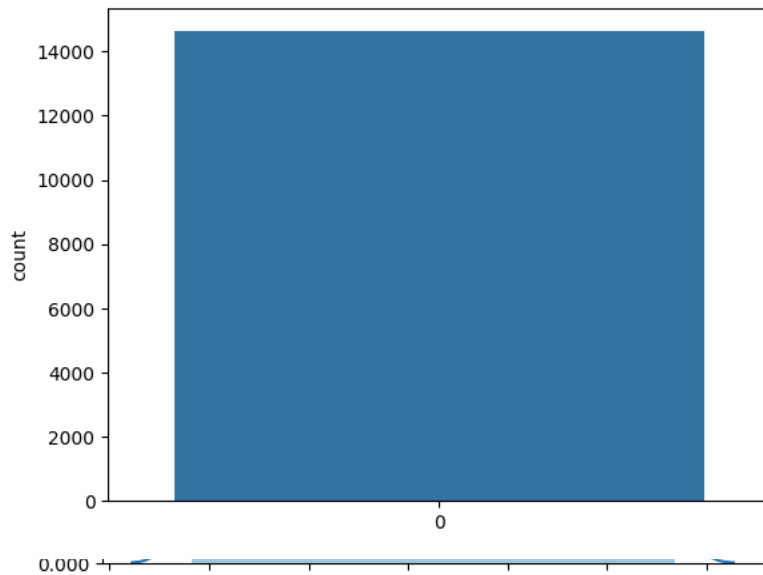
```
<ipython-input-5-69ee31ae51a0>:1: UserWarning:
```

```
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

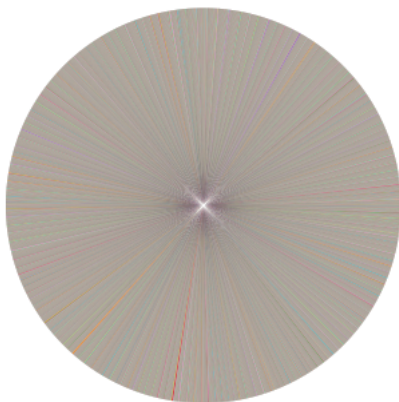
```
Please adapt your code to use either `displot` (a figure-level function with  
similar flexibility) or `histplot` (an axes-level function for histograms).
```

```
sns.countplot(data['number of bathrooms'])
```

```
<Axes: ylabel='count'>
```



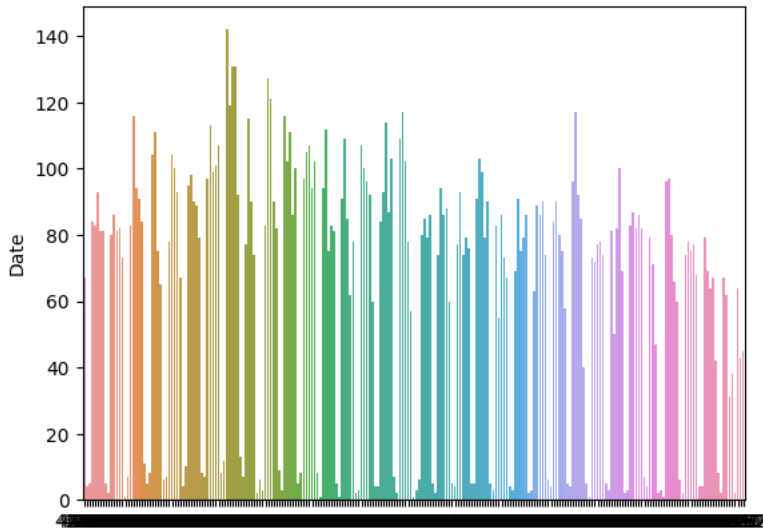
```
plt.pie(data.Price)  
plt.show()
```



```
x = data['number of bedrooms'].value_counts()  
plt.pie(x.values,  
        labels=x.index,  
        autopct='%1.1f%%')  
plt.show()
```

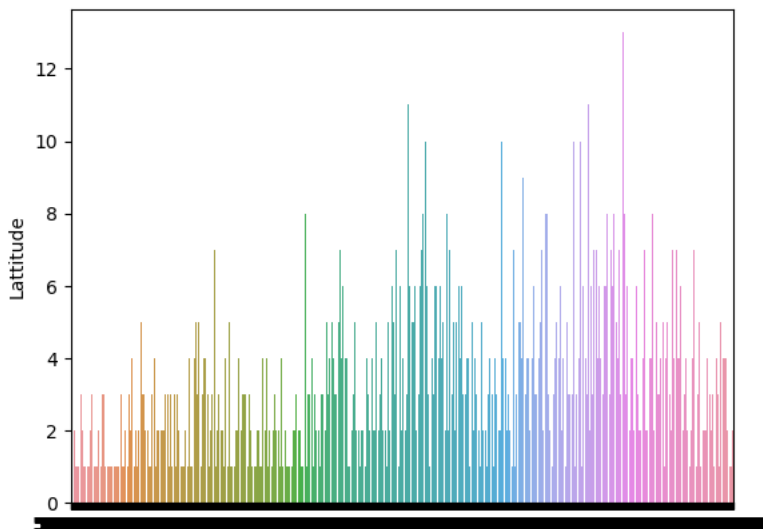
```
sns.barplot(x=data.Date.value_counts().index,y=data.Date.value_counts())
```

<Axes: ylabel='Date'>



```
sns.barplot(x=data.Latitude.value_counts().index,y=data.Latitude.value_counts())
```

<Axes: ylabel='Latitude'>



```
# Bi Variate Analysis
```

```
import matplotlib.pyplot as plt
plt.figure(figsize=(15, 5))
sns.barplot(x=data['id'], y=data['number of bedrooms'])
plt.xticks(rotation='vertical')
```

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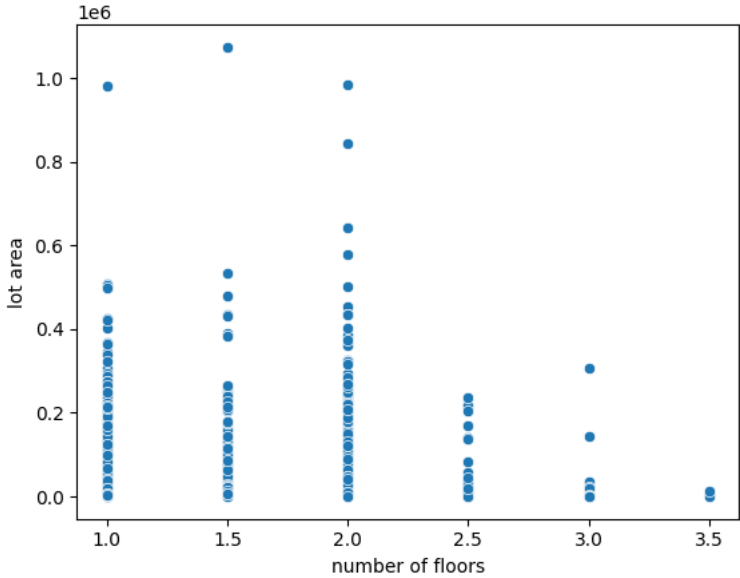
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sns.scatterplot(x=data['number of floors'],
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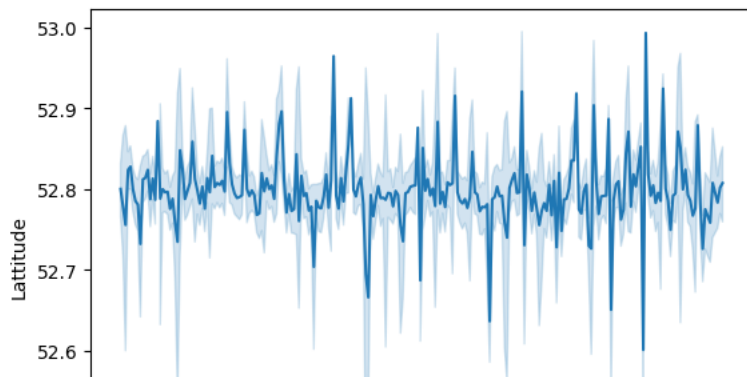
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sns.lineplot(x=data.Date,y=data.Lattitude)
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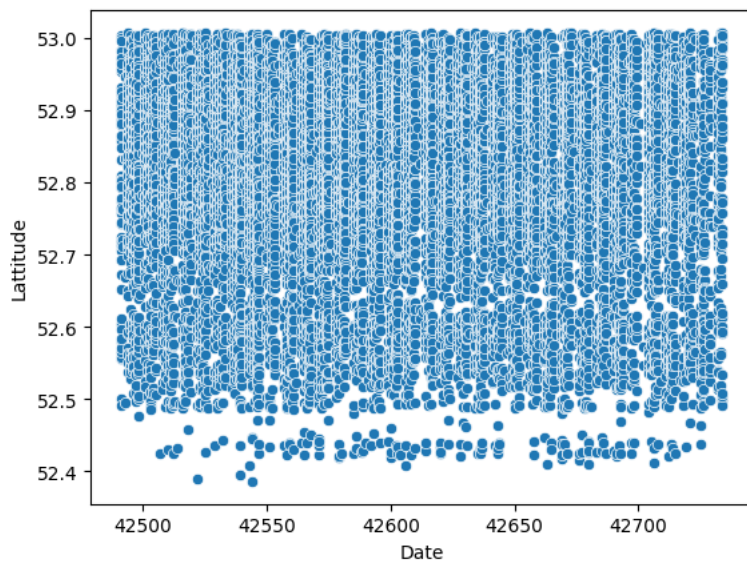


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<Axes: xlabel='Date', ylabel='Latitude'>
```



```
sns.scatterplot(x=data.Date,y=data.Latitude)
```

```
<Axes: xlabel='Date', ylabel='Latitude'>
```



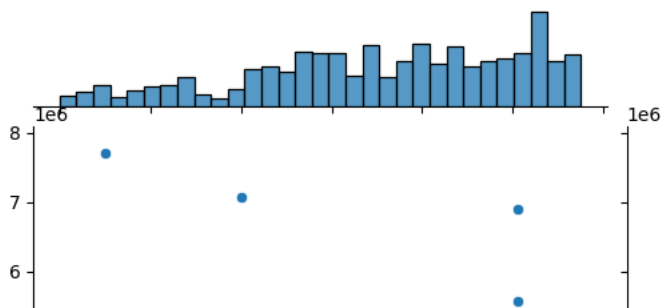
```
plt.boxplot(data)
```

[illegible]

```
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```

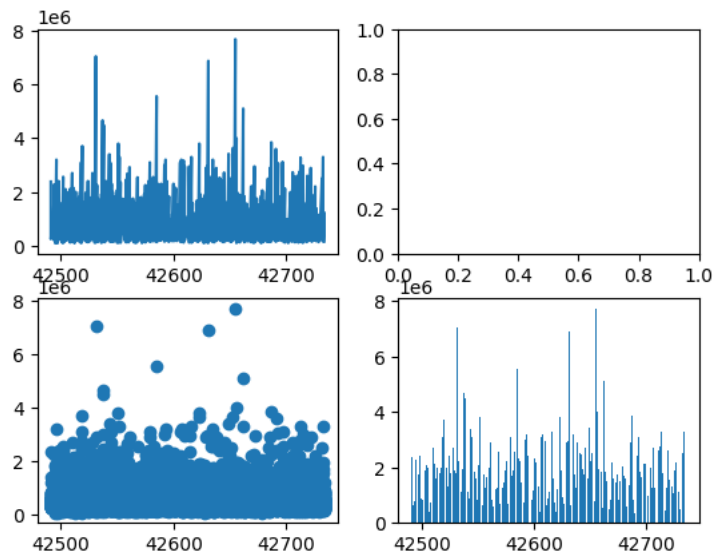
```
sns.jointplot(x='Built Year',y='Price',data=data)
```

<seaborn.axisgrid.JointGrid at 0x7d857411b010>



```
fig,ax = plt.subplots(2,2)
ax[0,0].plot(data.Date , data.Price)
ax[1,0].scatter(data.Date , data.Price)
ax[1,1].bar(data.Date , data.Price)
```

<BarContainer object of 14620 artists>



```
sns.heatmap(data.corr(),annot=True)
```

<Axes: >



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