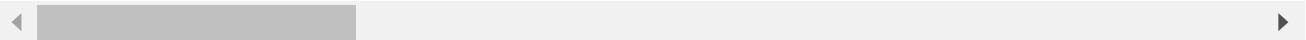


```
import pandas as pd
import matplotlib.pyplot as plt
from matplotlib import rcParams
import seaborn as sns

df=pd.read_csv('/content/House Price India.csv')
df.head(6)
```

	id	Date	number_of_bedrooms	number_of_bathrooms	living_area	lot_area	
0	6762810145	42491		5	2.50	3650	9050
1	6762810635	42491		4	2.50	2920	4000
2	6762810998	42491		5	2.75	2910	9480
3	6762812605	42491		4	2.50	3310	42998
4	6762812919	42491		3	2.00	2710	4500
5	6762813105	42491		3	2.50	2600	4750

6 rows × 23 columns



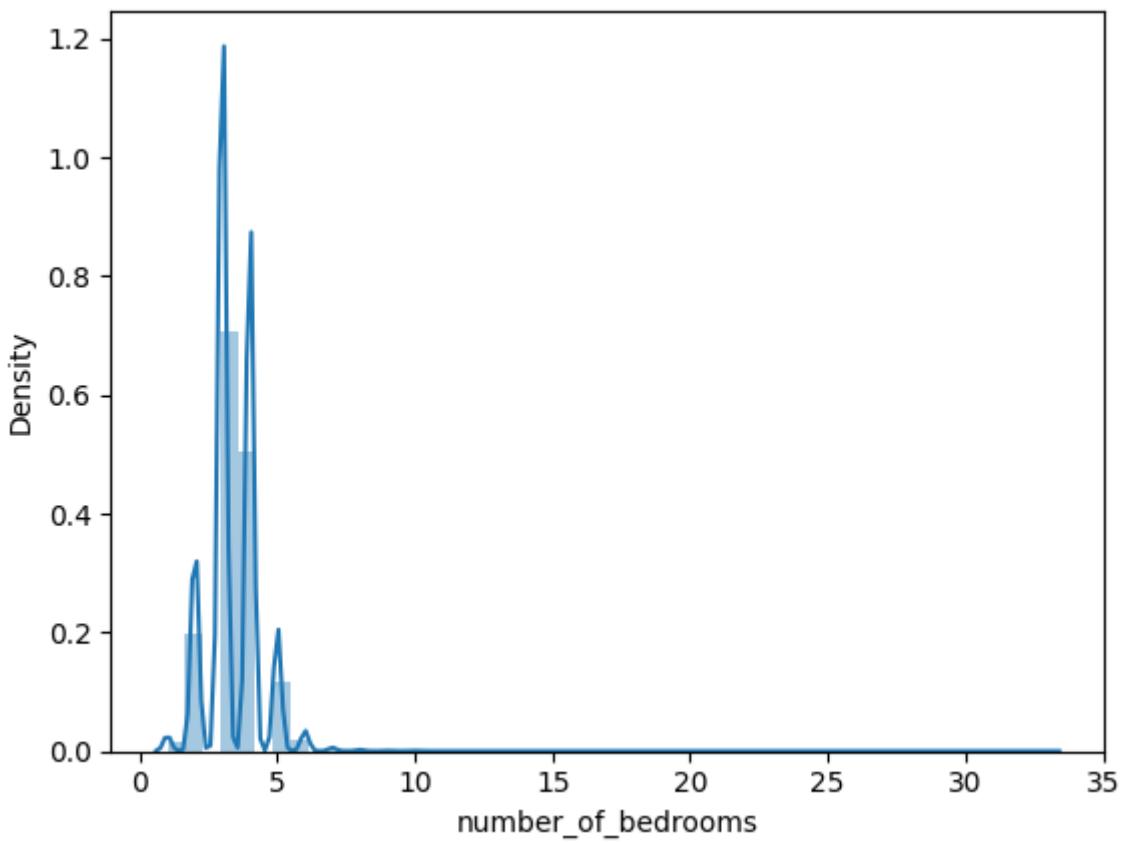
```
#Univariate analysis
sns.distplot(df.living_area)
```

```
<ipython-input-15-7b8b4a695ddd>:2: 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).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
```

```
sns.distplot(df.number_of_bedrooms)
```

```
<ipython-input-16-b25ff7c8a519>: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).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
```

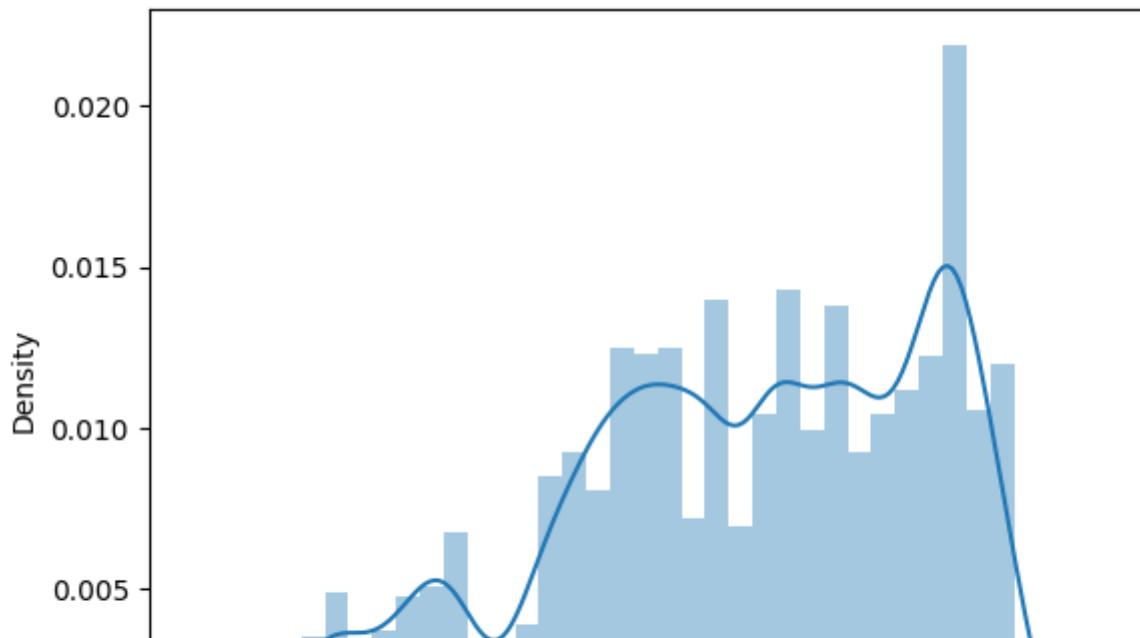
```
sns.distplot(df.number_of_bedrooms)  
<Axes: xlabel='number_of_bedrooms', ylabel='Density'>
```



```
sns.distplot(df.Built_Year)
```

```
<ipython-input-18-b6f73016438b>: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).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
```

```
sns.distplot(df.Built_Year)  
<Axes: xlabel='Built_Year', ylabel='Density'>
```



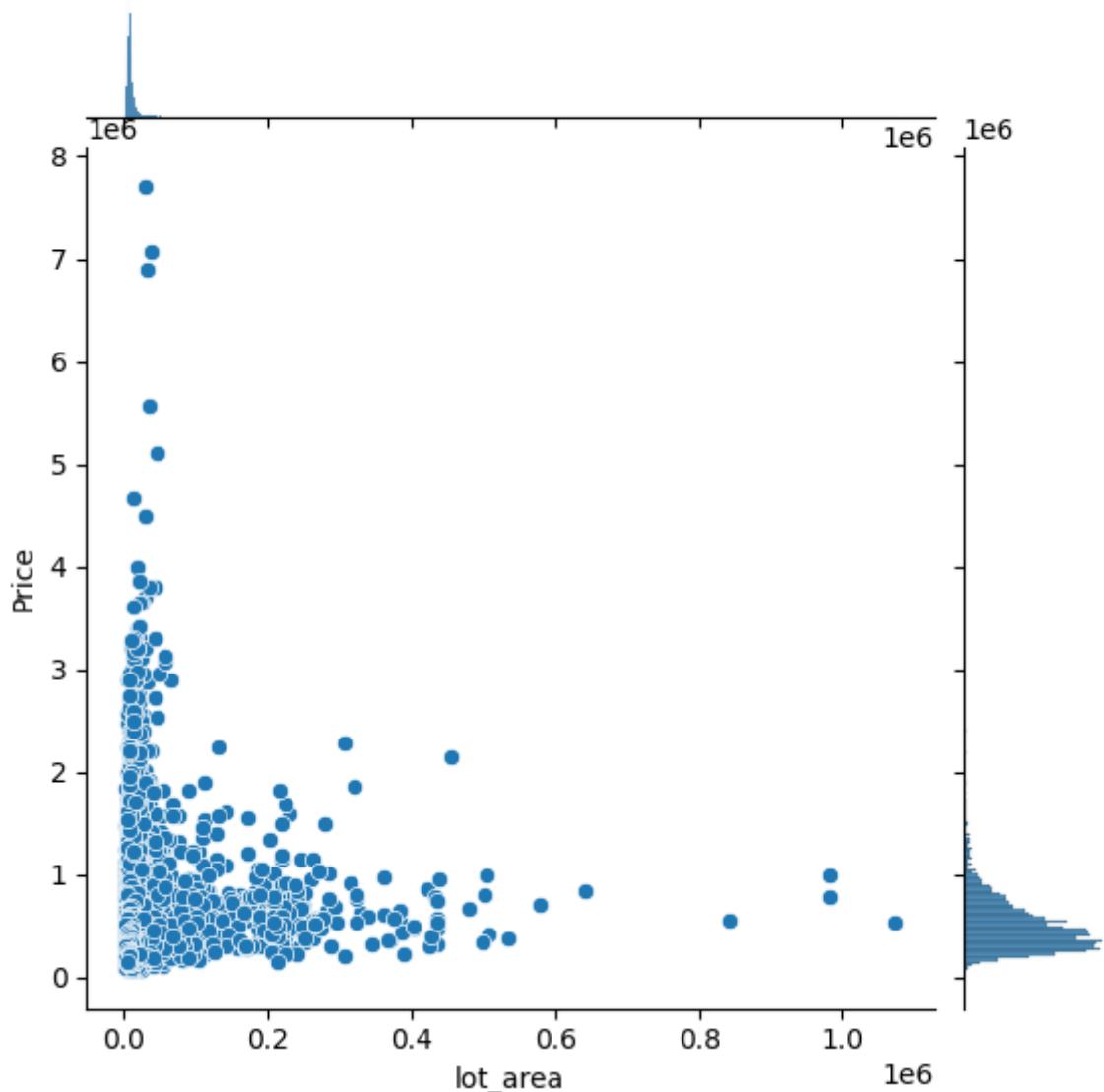
```
sns.distplot(df.Price)
```

```
<ipython-input-20-5e080168c38c>: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).  
For a guide to updating your code to use the new functions, please see  
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751
```

```
    sns.distplot(df.Price)  
<Axes: xlabel='Price', ylabel='Density'>
```

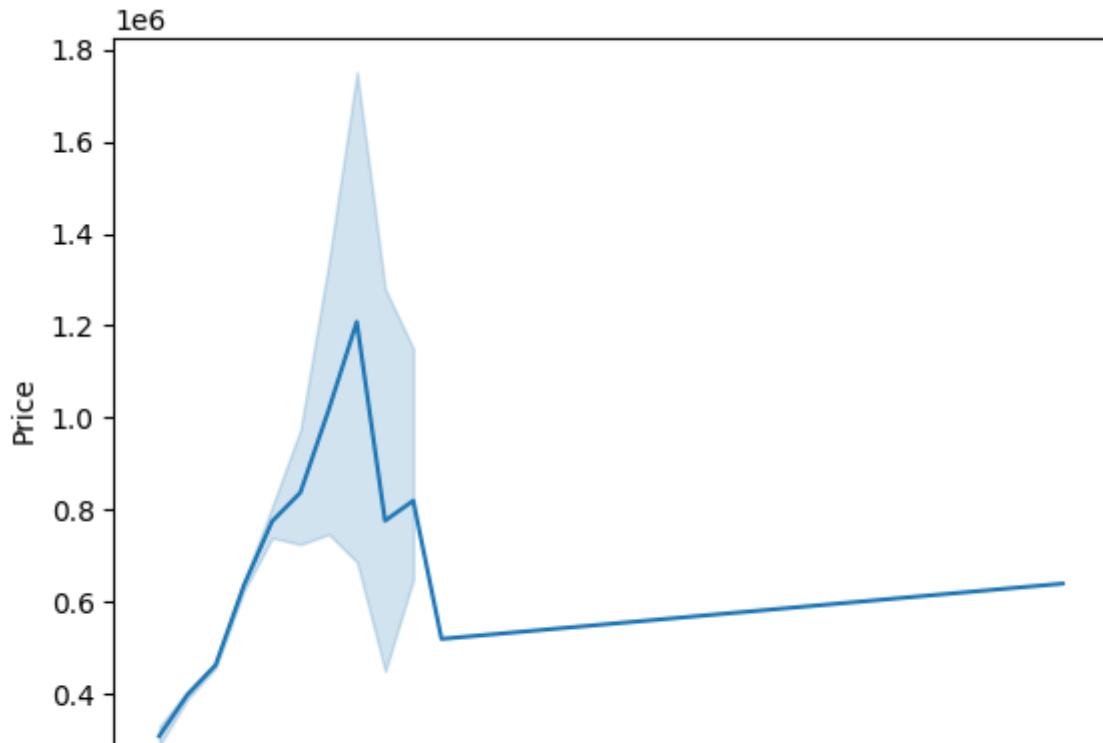
```
#bivariate Analysis  
sns.lineplot(x = df.)
```

```
<seaborn.axisgrid.JointGrid at 0x7f1af53b5630>
```



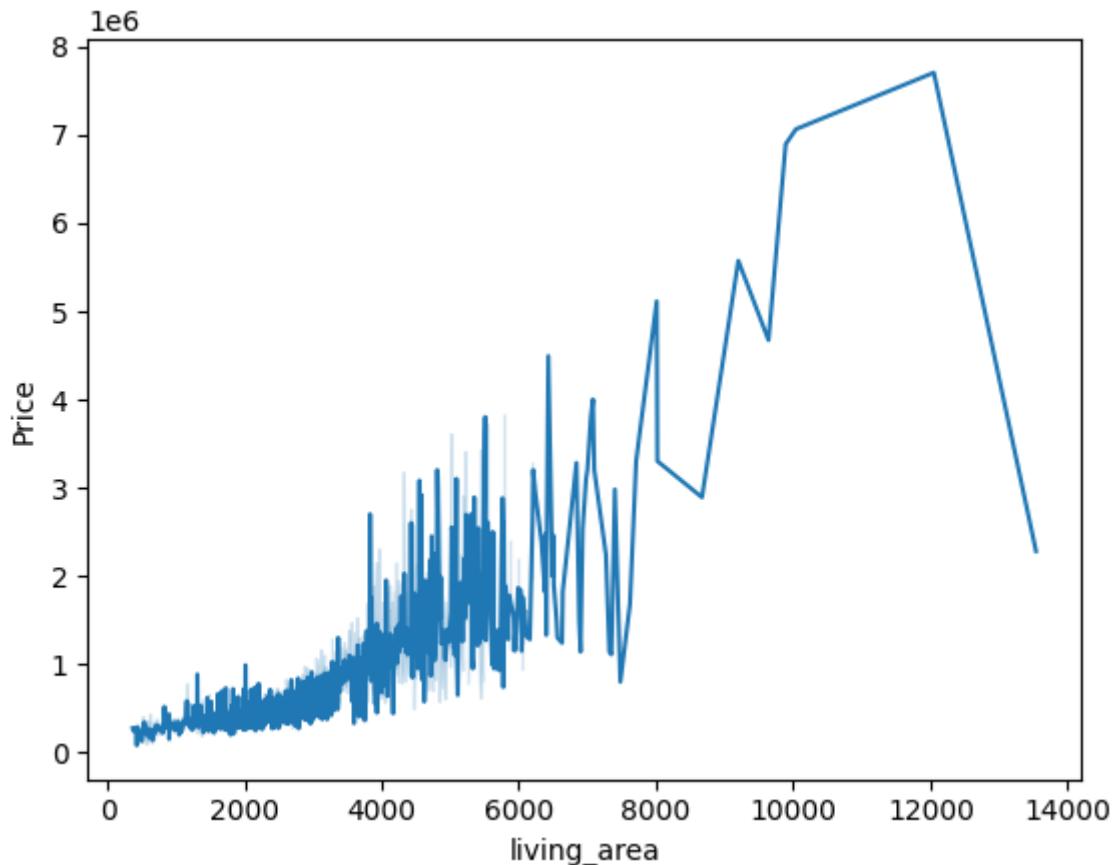
```
sns.lineplot(x=df.number_of_bedrooms,y=df.Price)
```

```
<Axes: xlabel='number_of_bedrooms', ylabel='Price'>
```



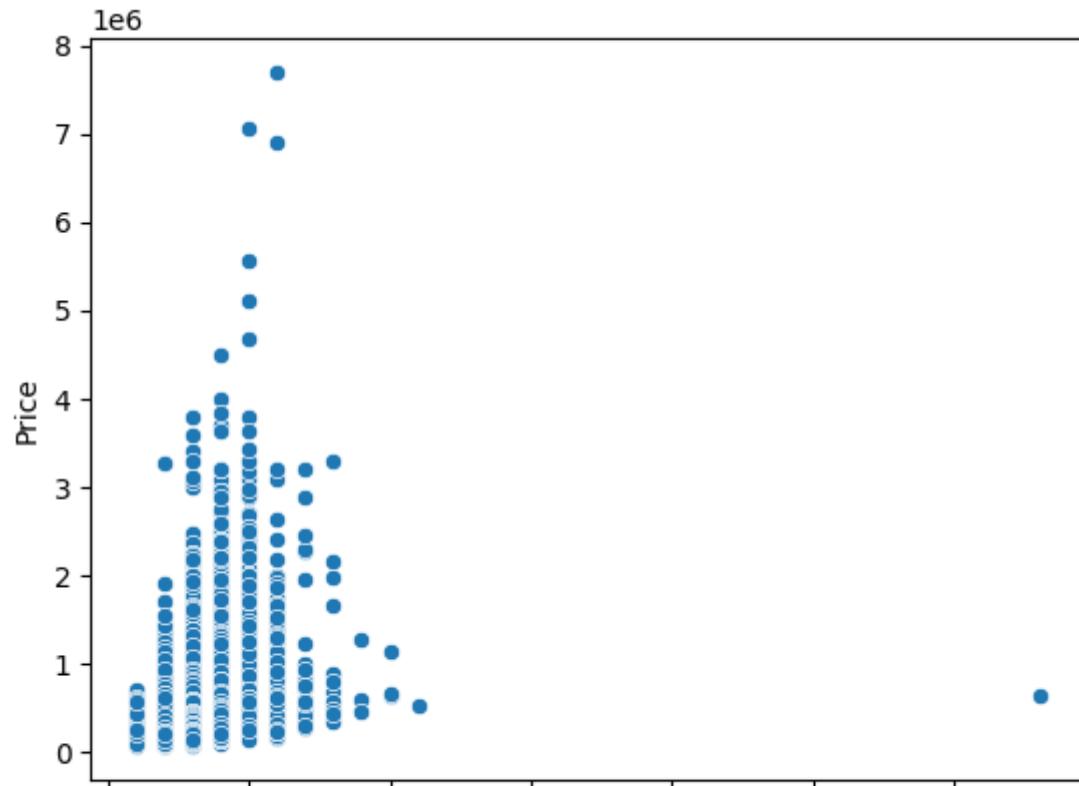
```
sns.lineplot(x=df.living_area,y=df.Price)
```

```
<Axes: xlabel='living_area', ylabel='Price'>
```



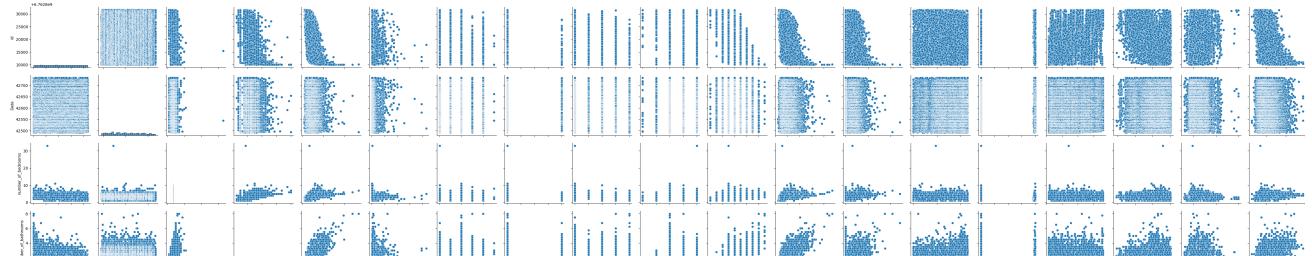
```
sns.scatterplot(x=df.number_of_bedrooms,y=df.Price)
```

```
<Axes: xlabel='number_of_bedrooms', ylabel='Price'>
```



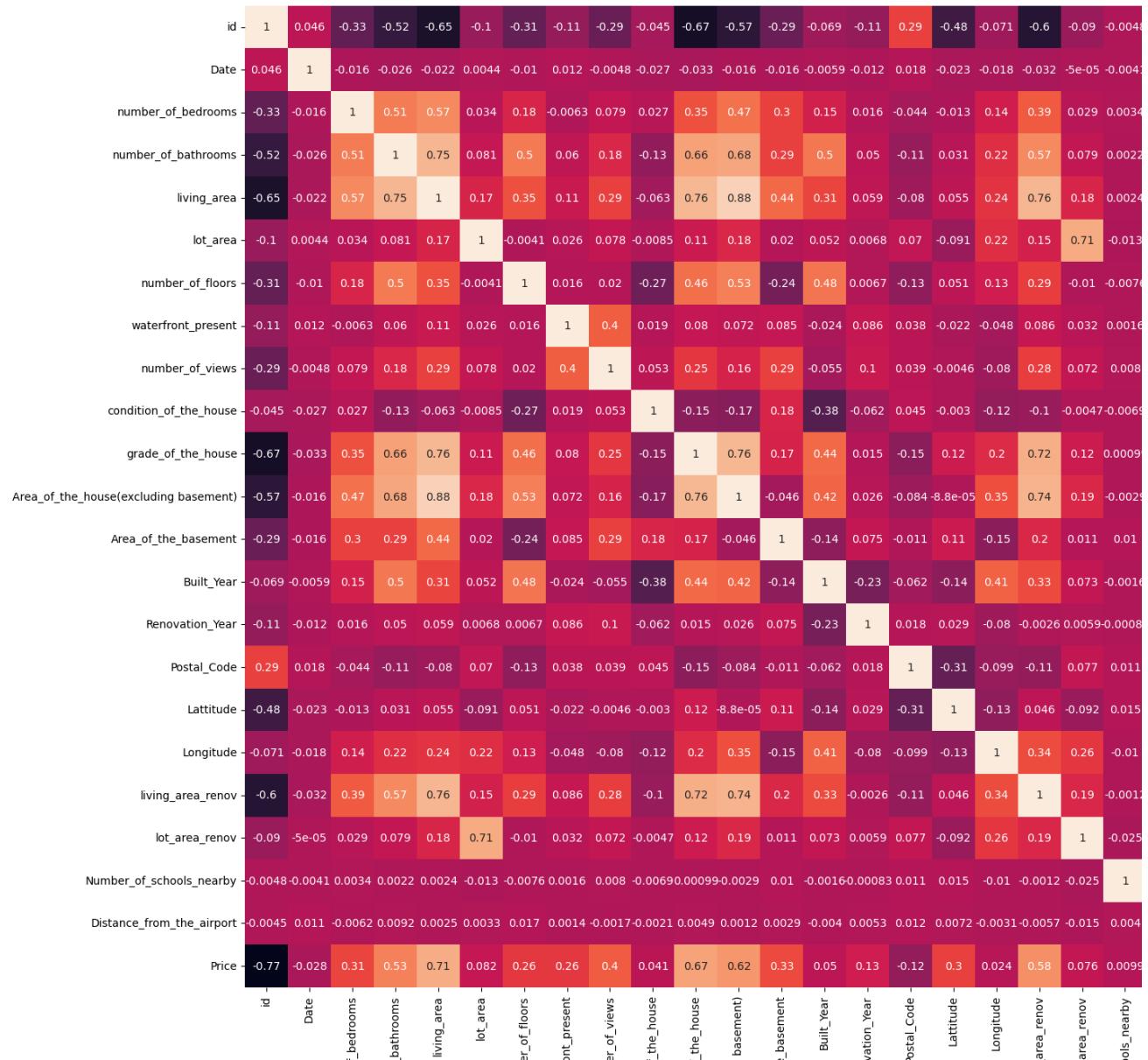
```
#multivariant anaysis  
sns.pairplot(df)
```

<seaborn.axisgrid.PairGrid at 0x7f1ab8ac2980>



```
plt.figure(figsize=(20,16))
sns.heatmap(df.corr(), annot=True)
```

<Axes: >



df.describe()

	id	Date	number_of_bedrooms	number_of_bathrooms	living_area
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000
mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.2629
std	6.237575e+03	67.347991	0.938719	0.769934	928.2757
min	6.762810e+09	42491.000000	1.000000	0.500000	370.0000
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.0000
50%	6.762821e+09	42604.538646	3.379343	2.129583	2098.2629
75%	6.762821e+09	42604.538646	3.379343	2.129583	2098.2629

```
df.isnull().sum()
```

id	0
Date	0
number_of_bedrooms	0
number_of_bathrooms	0
living_area	0
lot_area	0
number_of_floors	0
waterfront_present	0
number_of_views	0
condition_of_the_house	0
grade_of_the_house	0
Area_of_the_house(excluding basement)	0
Area_of_the_basement	0
Built_Year	0
Renovation_Year	0
Postal_Code	0
Latitude	0
Longitude	0
living_area_renov	0
lot_area_renov	0
Number_of_schools_nearby	0
Distance_from_the_airport	0
Price	0
dtype: int64	

