NAME-SARTHAK MODAK

```
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
```

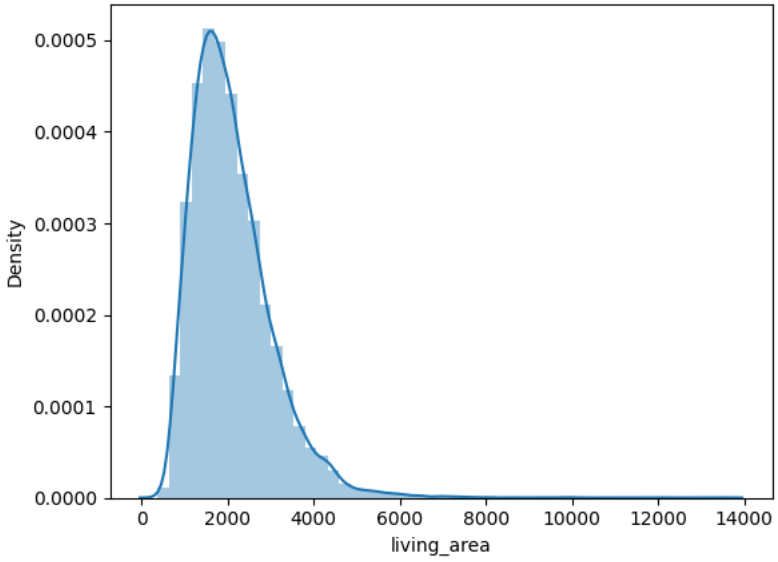
	id	Date	number_of_bedrooms	number_of_bathrooms	living_area	lot_area	number_of_floors	waterfront_prese
0	6762810145	42491	5	2.50	3650	9050	2.0	
1	6762810635	42491	4	2.50	2920	4000	1.5	
2	6762810998	42491	5	2.75	2910	9480	1.5	
3	6762812605	42491	4	2.50	3310	42998	2.0	
4	6762812919	42491	3	2.00	2710	4500	1.5	
...	...	...	...	...	...	...	...	
14615	6762830250	42734	2	1.50	1556	20000	1.0	
14616	6762830339	42734	3	2.00	1680	7000	1.5	
14617	6762830618	42734	2	1.00	1070	6120	1.0	
14618	6762830709	42734	4	1.00	1030	6621	1.0	
14619	6762831463	42734	3	1.00	900	4770	1.0	

14620 rows × 23 columns

Univariate Analysis

```
sns.distplot(df.living_area)
```

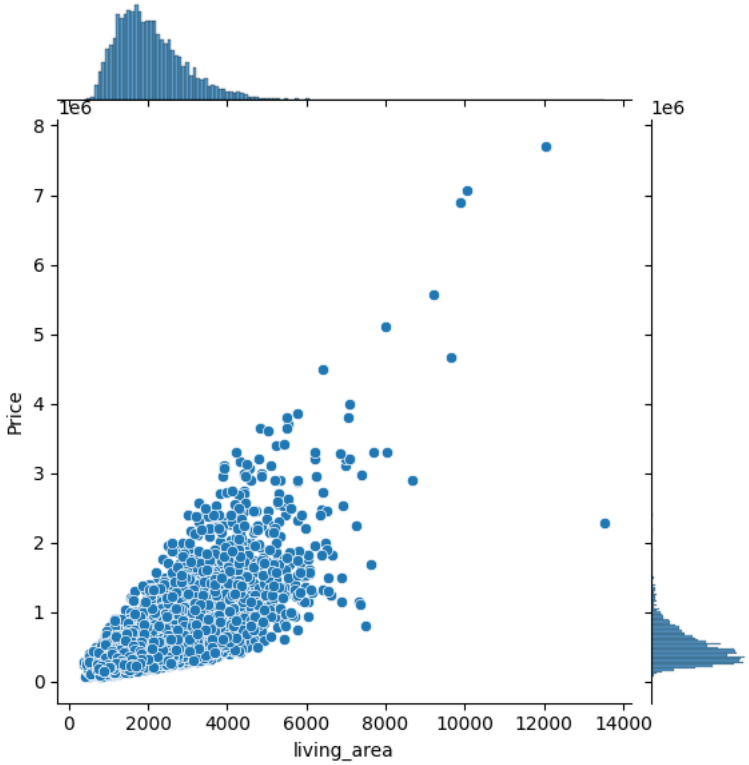
```
<ipython-input-3-2fe1fc3439c6>:1: UserWarning:

`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.living_area)
<Axes: xlabel='living_area', ylabel='Density'>
```



Bi-Variate Analysis

```
sns.jointplot(x='living_area',y='Price',data=df)
```

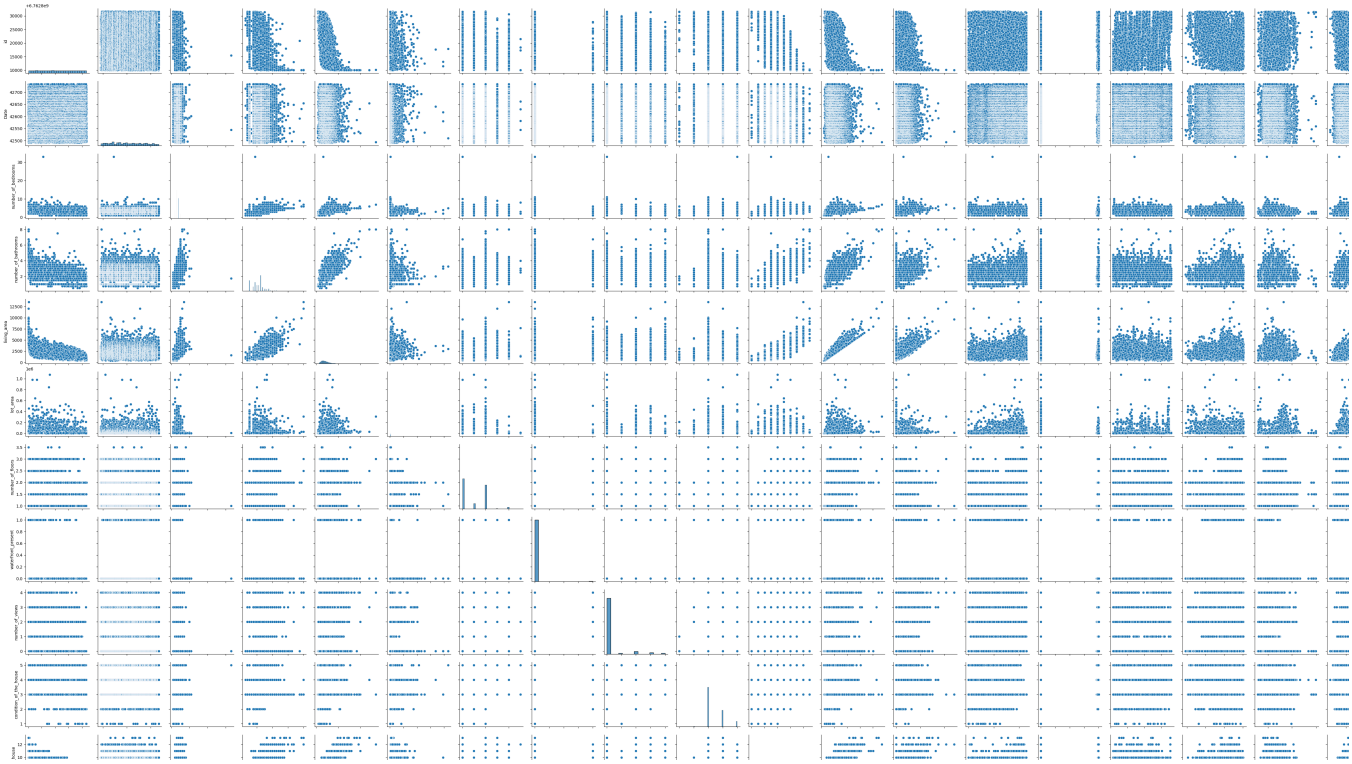
```
<seaborn.axisgrid.JointGrid at 0x7f81830acc40>
```



Multivariate Analysis

```
sns.pairplot(df)
```

```
<seaborn.axisgrid.PairGrid at 0x7f817e3393c0>
```



```
df.describe()
```

	id	Date	number_of_bedrooms	number_of_bathrooms	living_area	lot_area	number_of_floors	waterf
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	
mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.262996	1.509328e+04	1.502360	
std	6.237575e+03	67.347991	0.938719	0.769934	928.275721	3.791962e+04	0.540239	
min	6.762810e+09	42491.000000	1.000000	0.500000	370.000000	5.200000e+02	1.000000	
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.000000	5.010750e+03	1.000000	
50%	6.762821e+09	42600.000000	3.000000	2.250000	1930.000000	7.620000e+03	1.500000	
75%	6.762826e+09	42662.000000	4.000000	2.500000	2570.000000	1.080000e+04	2.000000	
max	6.762832e+09	42734.000000	33.000000	8.000000	13540.000000	1.074218e+06	3.500000	

8 rows × 23 columns

```
df.isnull().any()
```

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

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