

## Assignment - 2

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Evening slot

Branch: CSE with AI and ML

```
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 (1).csv')
df.head()
```

	id	Date	number_of_bedrooms	number_of_bathrooms	living_area	lot_area	number_of_floors
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
					2710	4500	1.5

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5 rows × 8 columns

```
# Univariate Analysis (Analysis on single feature 'living area')
sns.distplot(df.living_area)
```

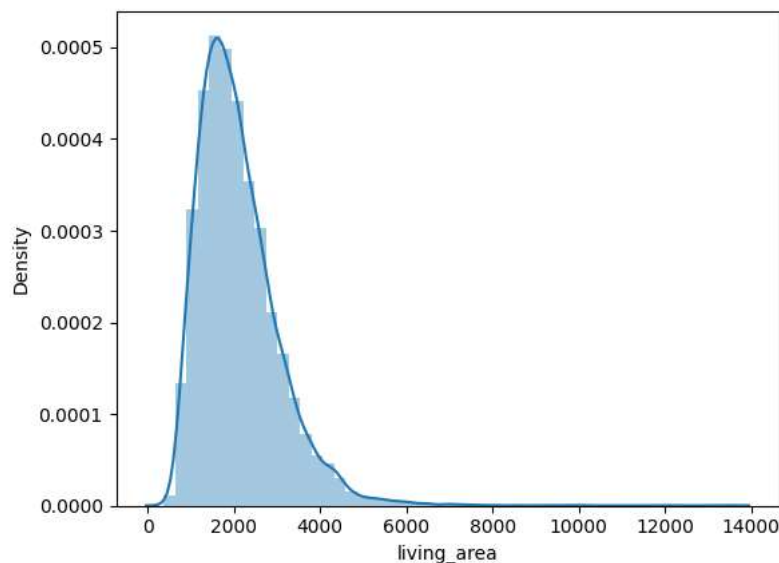
<ipython-input-3-c96592ddbdf3>:2: UserWarning:

`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).

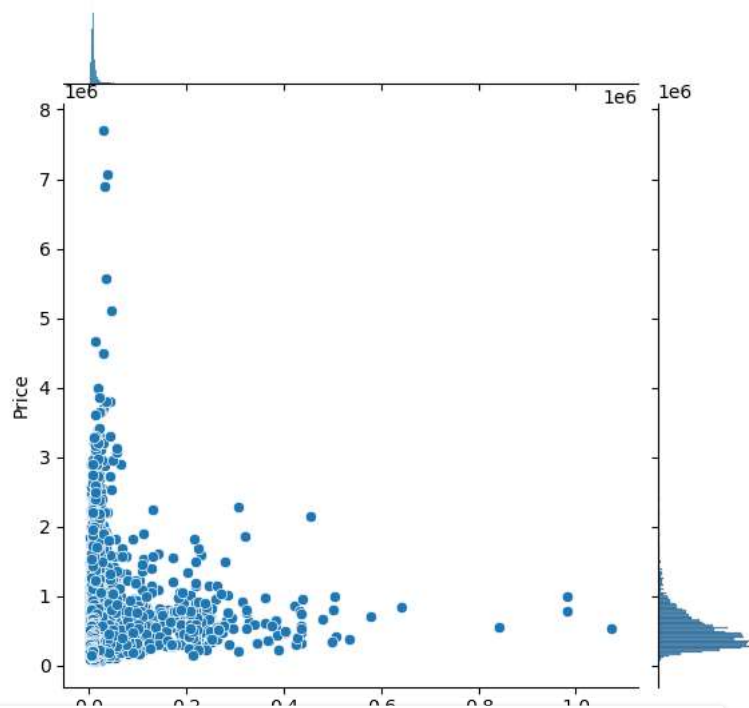
For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

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



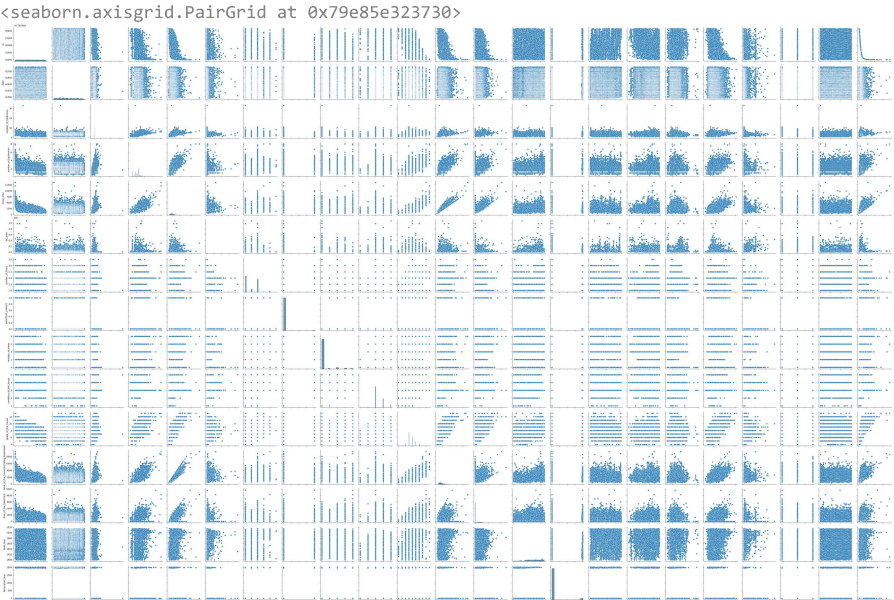
```
# Bivariate Analysis (Comparison between 'lot_area' feature and 'Price')
sns.jointplot(x='lot_area',y='Price',data=df)
```

```
<seaborn.axisgrid.JointGrid at 0x79e89af5eb30>
```



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```
# Multivariate analysis
sns.pairplot(df)
```



df.describe()

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

8 rows × 23 columns

df.isnull().any() #Checking is there any null values in our dataset

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
Latitude	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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