

```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
path = "/content/House Price India.csv"
df=pd.read_csv(path)
```

Load the dataset

```
df
df.info()
df.head()
```

<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 14620 entries, 0 to 14619  
Data columns (total 23 columns):  
# Column Non-Null Count Dtype  
--- -  
0 id 14620 non-null int64  
1 Date 14620 non-null int64  
2 number of bedrooms 14620 non-null int64  
3 number of bathrooms 14620 non-null float64  
4 living area 14620 non-null int64  
5 lot area 14620 non-null int64  
6 number of floors 14620 non-null float64  
7 waterfront present 14620 non-null int64  
8 number of views 14620 non-null int64  
9 condition of the house 14620 non-null int64  
10 grade of the house 14620 non-null int64  
11 Area of the house(excluding basement) 14620 non-null int64  
12 Area of the basement 14620 non-null int64  
13 Built Year 14620 non-null int64  
14 Renovation Year 14620 non-null int64  
15 Postal Code 14620 non-null int64  
16 Lattitude 14620 non-null float64  
17 Longitude 14620 non-null float64  
18 living\_area\_renov 14620 non-null int64  
19 lot\_area\_renov 14620 non-null int64  
20 Number of schools nearby 14620 non-null int64  
21 Distance from the airport 14620 non-null int64  
22 Price 14620 non-null int64  
dtypes: float64(4), int64(19)  
memory usage: 2.6 MB

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

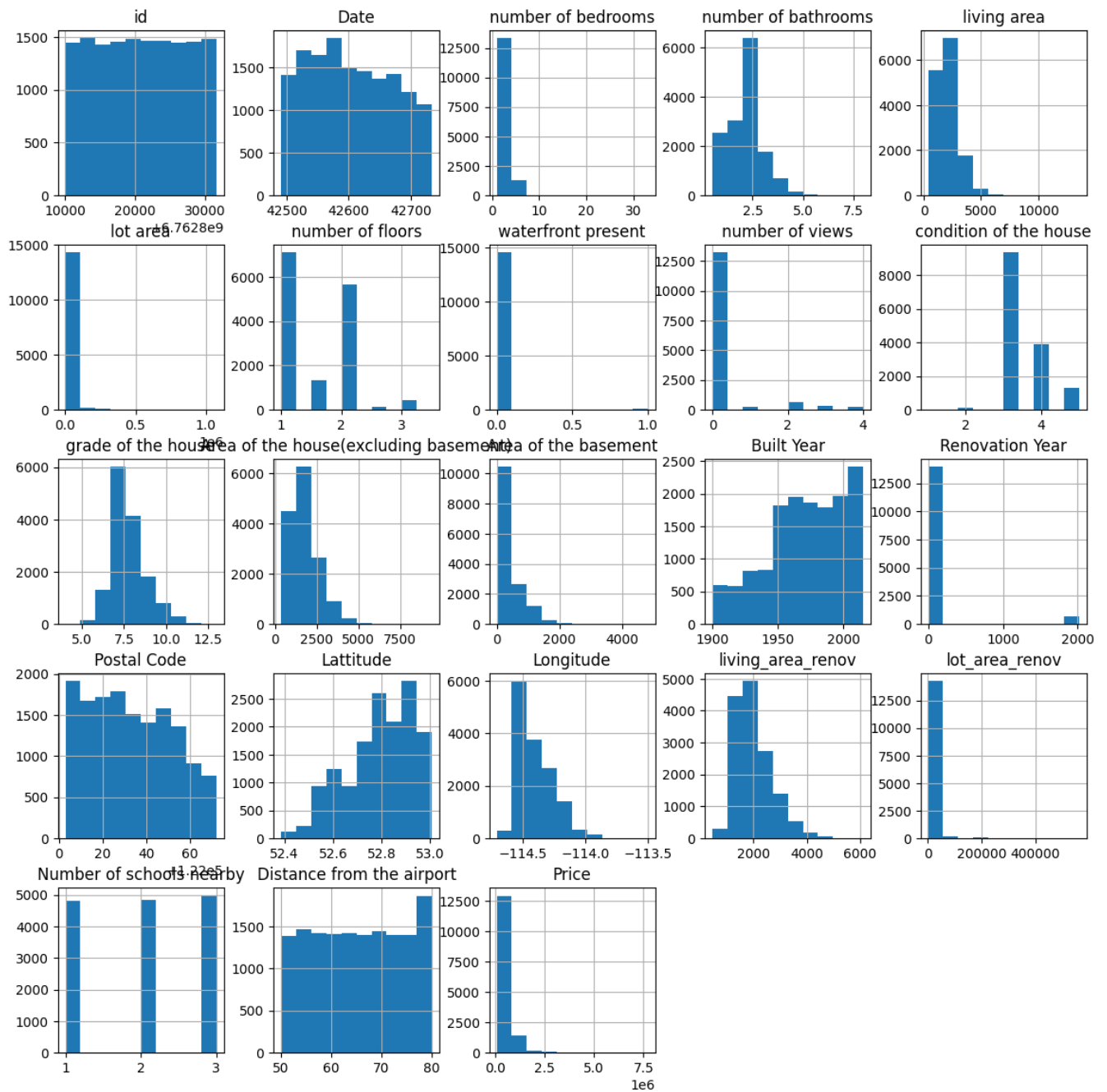
5 rows × 23 columns

Univariate

```
sns.displot(df.id)
sns.displot(df.Date)
```

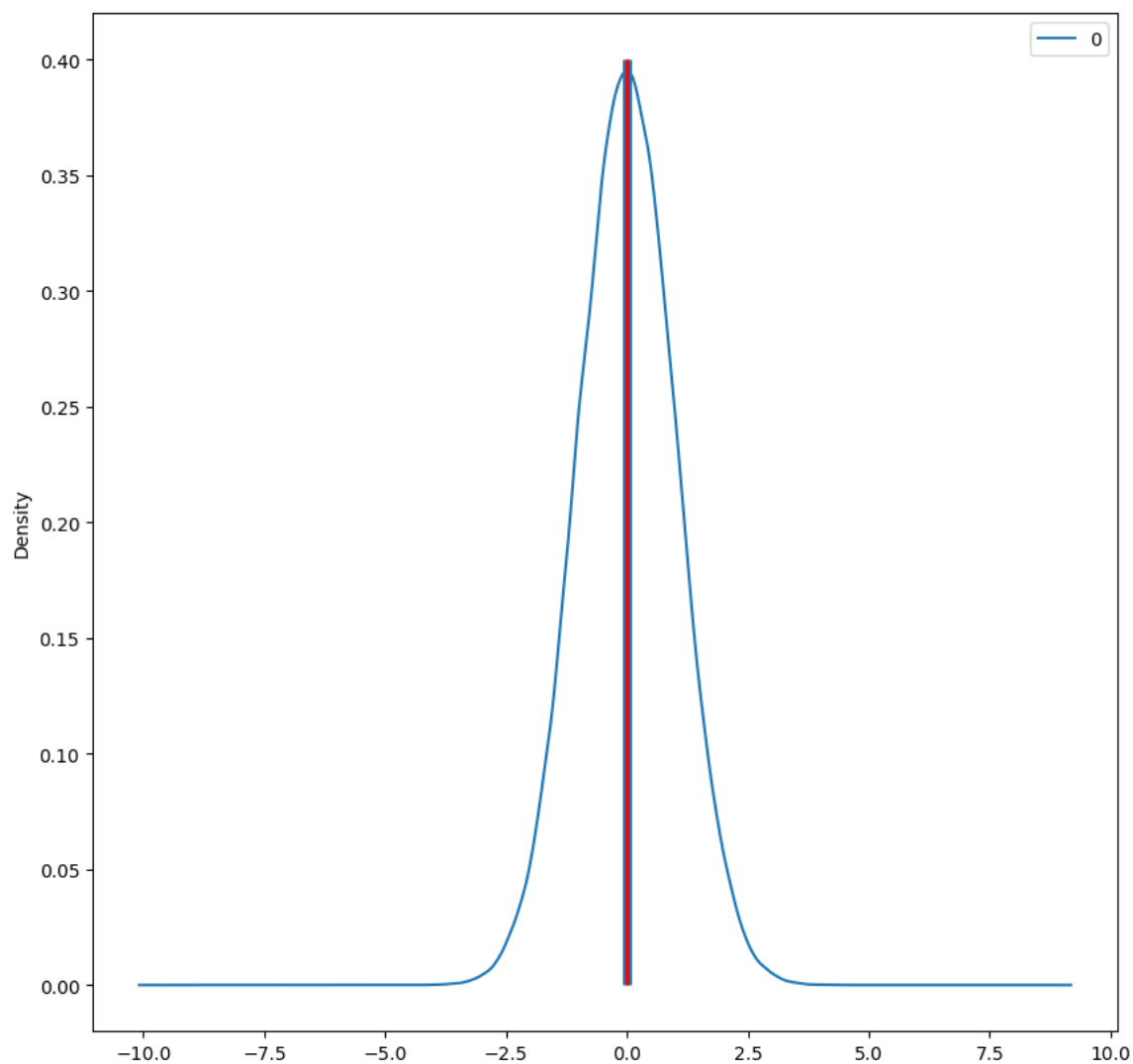


```
array([[<Axes: title={'center': 'id'}>, <Axes: title={'center': 'Date'}>,
<Axes: title={'center': 'number of bedrooms'}>,
<Axes: title={'center': 'number of bathrooms'}>,
<Axes: title={'center': 'living area'}>],
[<Axes: title={'center': 'lot area'}>,
<Axes: title={'center': 'number of floors'}>,
<Axes: title={'center': 'waterfront present'}>,
<Axes: title={'center': 'number of views'}>,
<Axes: title={'center': 'condition of the house'}>],
[<Axes: title={'center': 'grade of the house'}>,
<Axes: title={'center': 'Area of the house(excluding basement)'}>,
<Axes: title={'center': 'Area of the basement'}>,
<Axes: title={'center': 'Built Year'}>,
<Axes: title={'center': 'Renovation Year'}>],
[<Axes: title={'center': 'Postal Code'}>,
<Axes: title={'center': 'Latitude'}>,
<Axes: title={'center': 'Longitude'}>,
<Axes: title={'center': 'living_area_renov'}>,
<Axes: title={'center': 'lot_area_renov'}>],
[<Axes: title={'center': 'Number of schools nearby'}>,
<Axes: title={'center': 'Distance from the airport'}>,
<Axes: title={'center': 'Price'}>],
dtype=object)
```



## Perform Descriptive statistics on the Dataset

```
df.mean()
df.median()
norm_df=pd.DataFrame(np.random.normal(size=100000))
norm_df.plot(kind="density",
              figsize=(10,10));
plt.vlines(norm_df.mean(),
            ymin=0,
            ymax=0.4,
            linewidth=5.0) ;
plt.vlines(norm_df.median(),
            ymin=0,
            ymax=0.4,
            linewidth=2.0,
            color="red");
```



## Handle the Missing Value

Double-click (or enter) to edit

```
df=pd.DataFrame(df)
df.isnull()
```

	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	...	Built Year	Renovation Year	Postal Code	Lattitu
0	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
1	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
2	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
3	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
4	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
14615	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
14616	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
14617	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
14618	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε
14619	False	False	False	False	False	False	False	False	False	False	...	False	False	False	Fε

14620 rows × 23 columns

