

```
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  
--- ---  
0 id  
1 Date  
2 number of bedrooms  
3 number of bathrooms  
4 living area  
5 lot area  
6 number of floors  
7 waterfront present  
8 number of views  
9 condition of the house  
10 grade of the house  
11 Area of the house(excluding basement)  
12 Area of the basement  
13 Built Year  
14 Renovation Year  
15 Postal Code  
16 Lattitude  
17 Longitude  
18 living\_area\_renov  
19 lot\_area\_renov  
20 Number of schools nearby  
21 Distance from the airport  
22 Price  
dtypes: float64(4), int64(19)  
memory usage: 2.6 MB

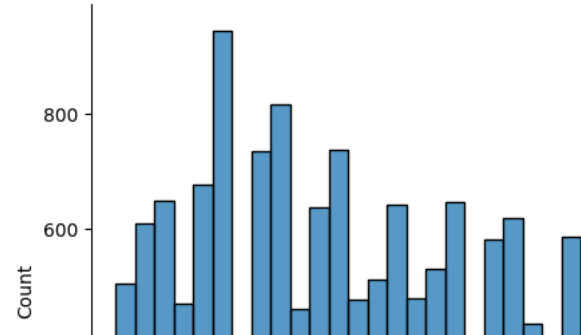
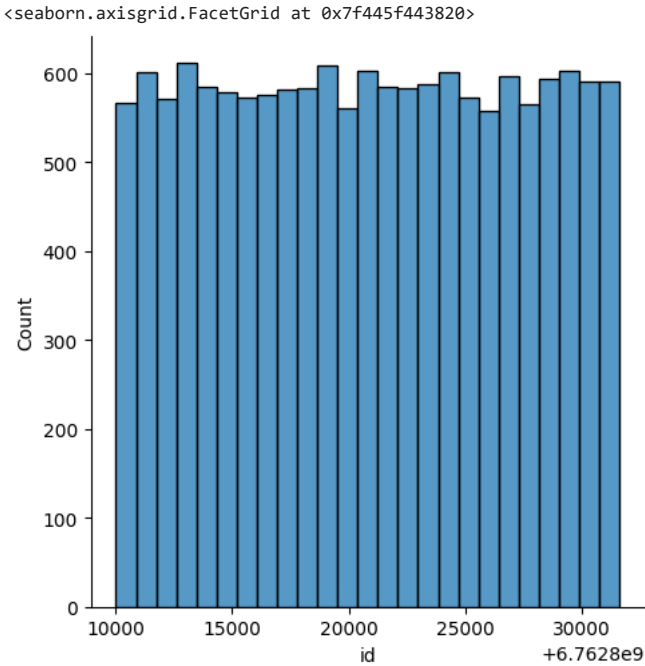
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0
4	6762812919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

5 rows × 23 columns



Univariate

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



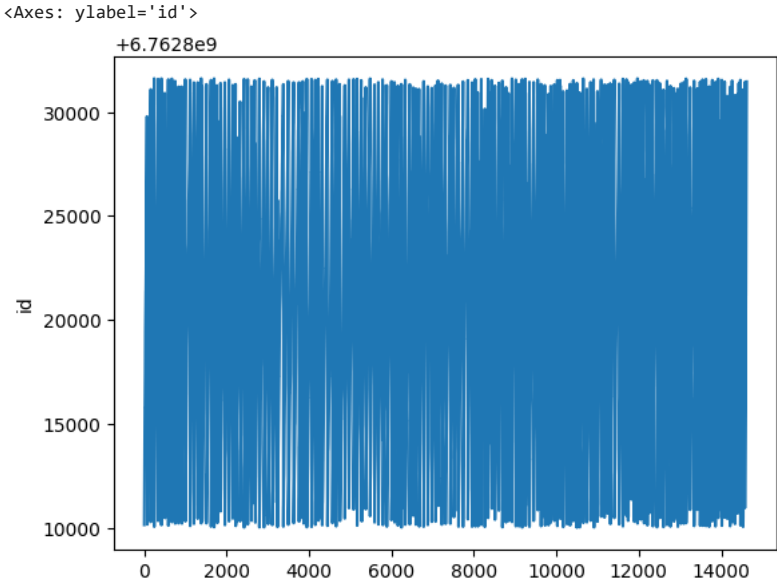
▼ New section



Bi- variate



sns.lineplot(df.id)



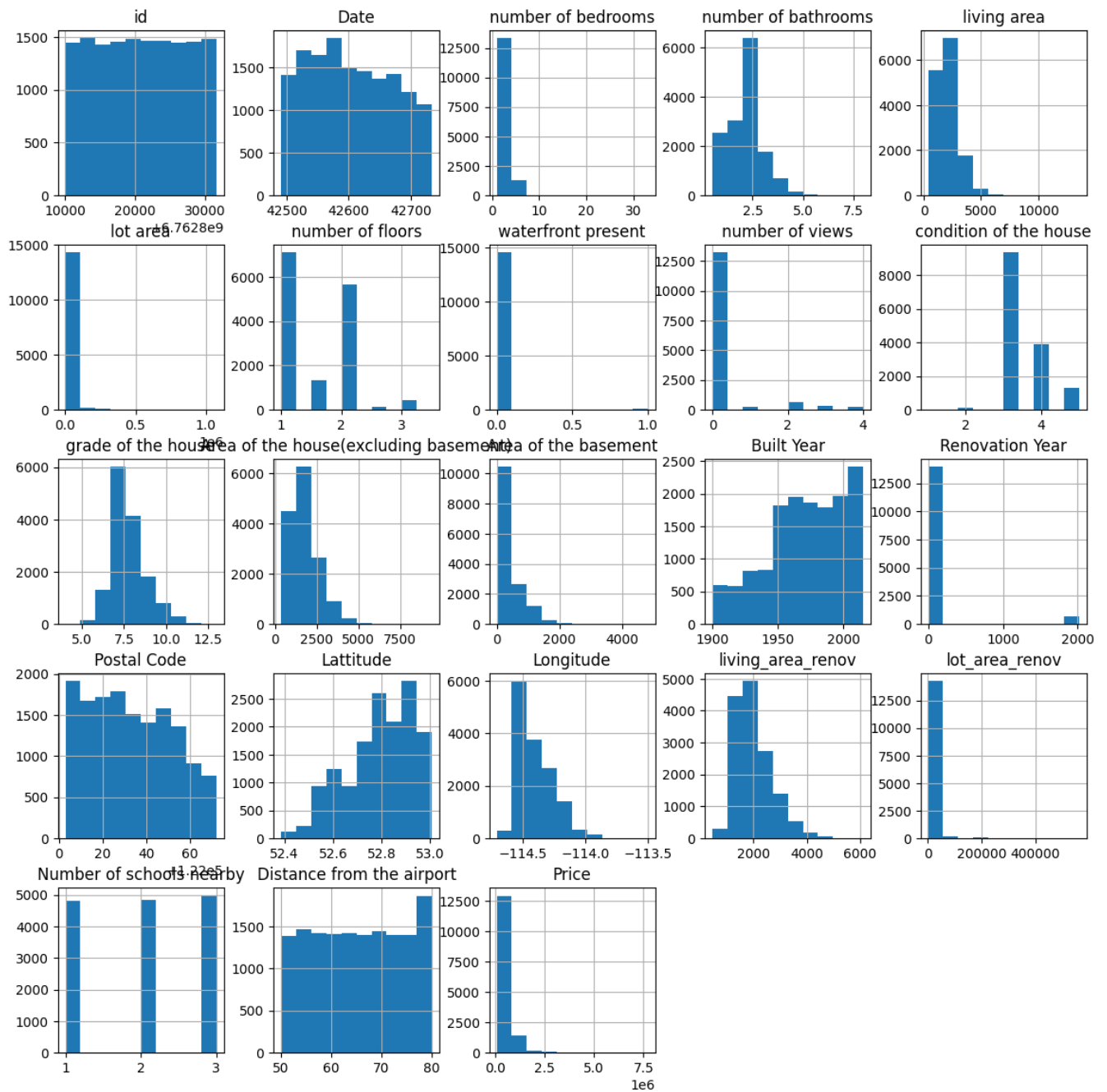
Multi variate

df.hist(figsize=(14,14))

```

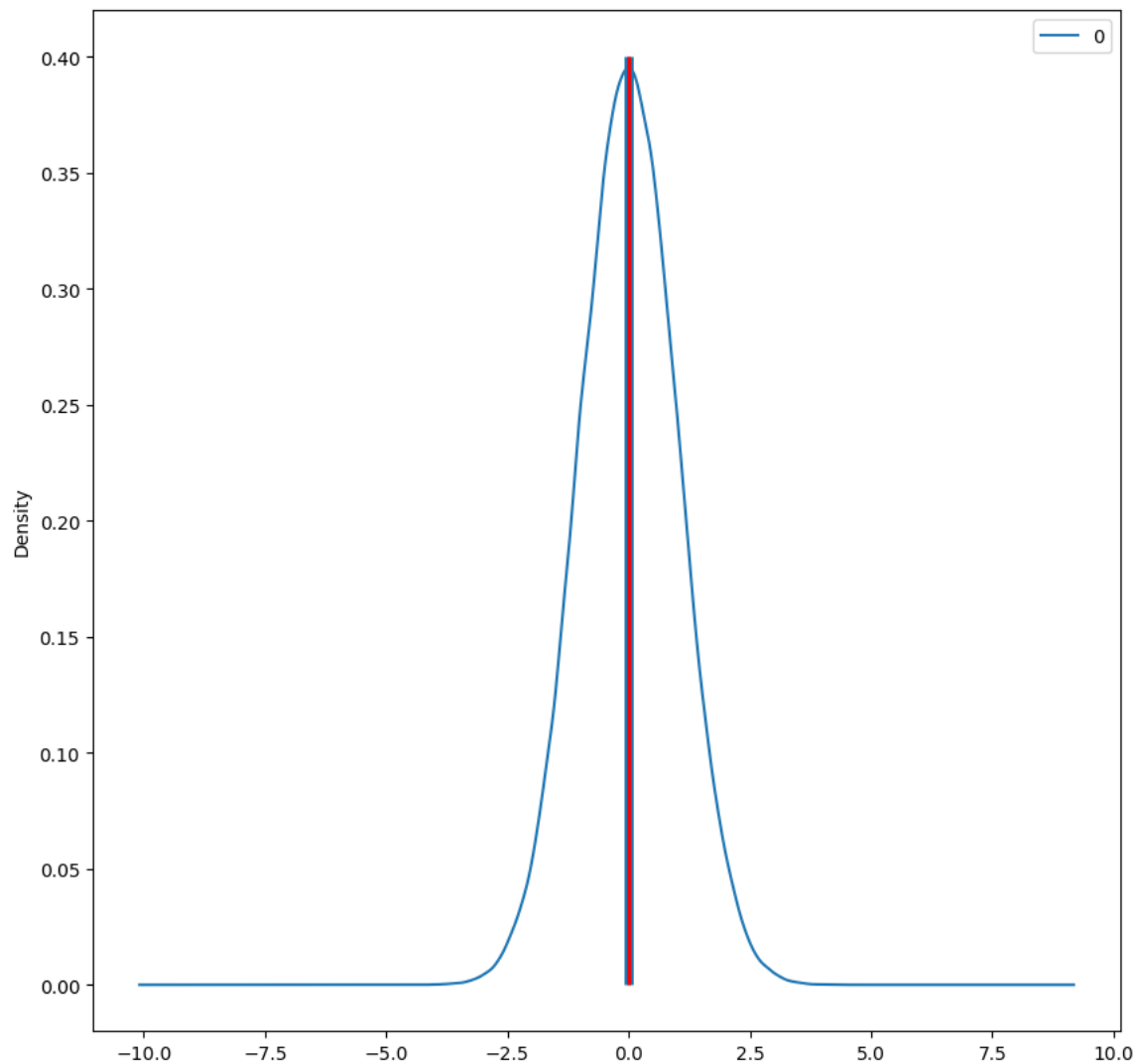
array([[<Axes: title={'center': 'id'}>, <Axes: title={'center': 'Date'}>,
<Axes: title={'center': 'number of bedrooms'}>,
<Axes: title={'center': 'number of bathrooms'}>,
<Axes: title={'center': 'living area'}>],
[<Axes: title={'center': 'lot area'}>,
<Axes: title={'center': 'number of floors'}>,
<Axes: 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

