

```
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)
```

Loat the Dataset

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

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 14620 entries, 0 to 14619

Data columns (total 23 columns):

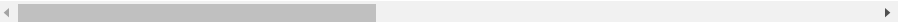
#	Column	Non-Null Count	Dtype
0	id	14620 non-null	int64
1	Date	14620 non-null	int64
2	number of bedrooms	14620 non-null	int64
3	number of bathrooms	14620 non-null	float64
4	living area	14620 non-null	int64
5	lot area	14620 non-null	int64
6	number of floors	14620 non-null	float64
7	waterfront present	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

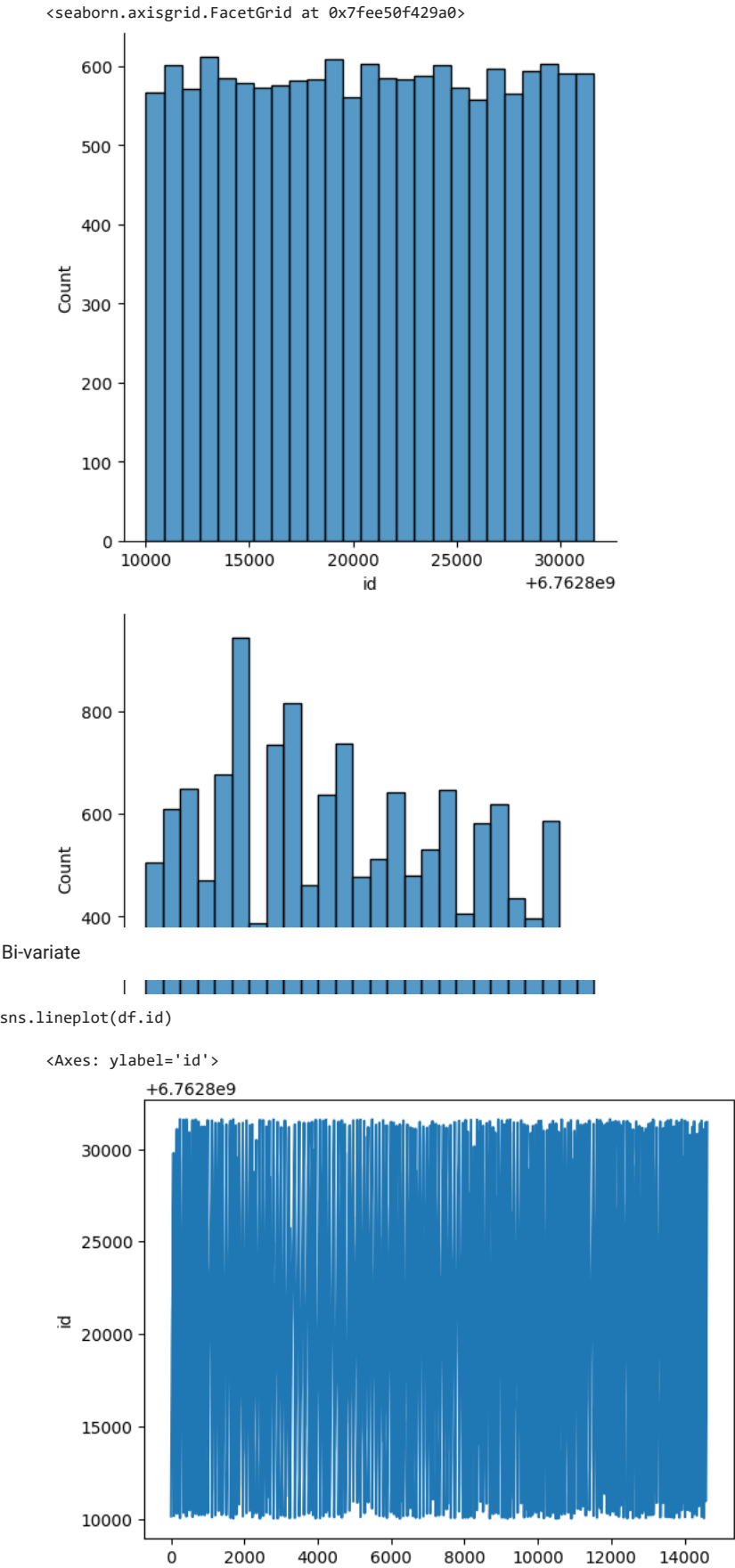
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	co
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	
3	6762812605	42491	4	2.50	3310	42998	2.0	0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

5 rows × 23 columns

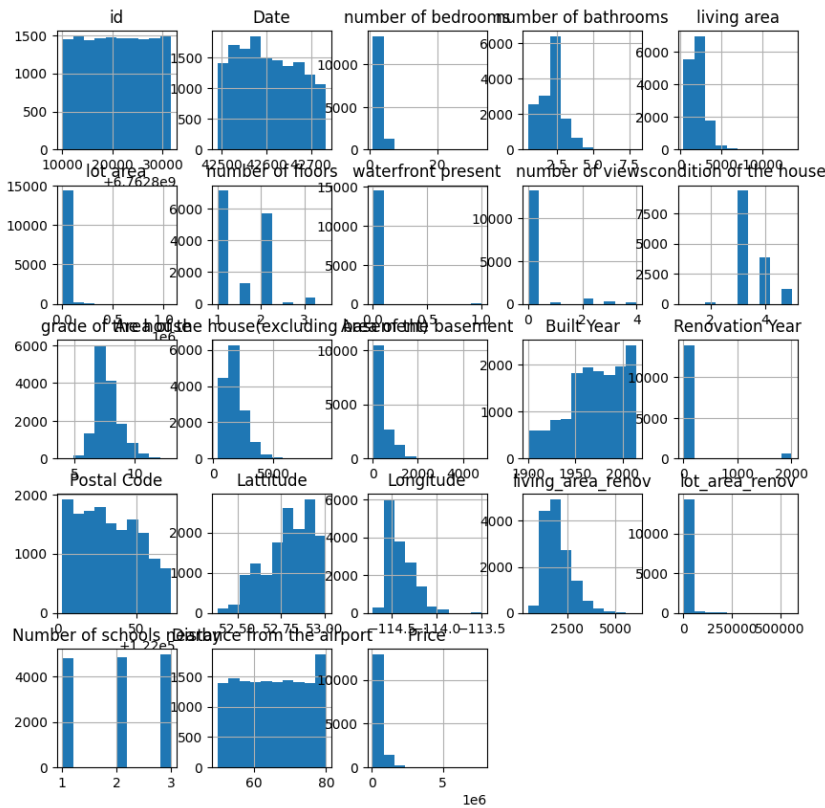


Univariate

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



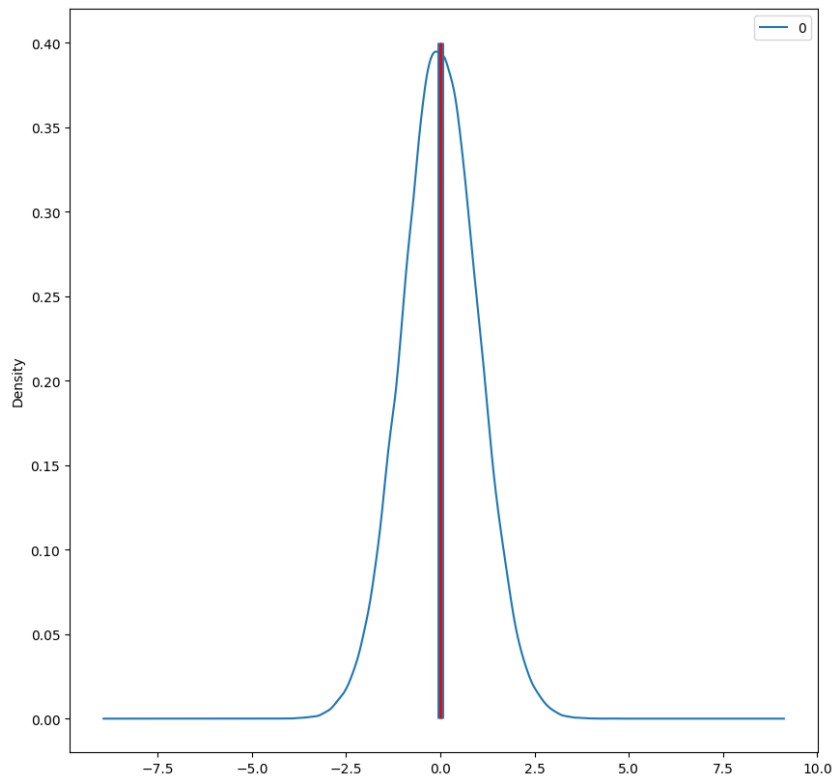
```
array([[<Axes: title={ 'center': 'id' }>, <Axes: title={ 'center': 'Date' }>,
      <Axes: title={ 'center': 'number of bedrooms' }>,
      <Axes: title={ 'center': 'number of bathrooms' }>,
      <Axes: title={ 'center': 'living area' }>],
      [<Axes: title={ 'center': 'lot area' }>,
      <Axes: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

```
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
0	False	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False
...
14615	False	False	False	False	False	False	False	False	False
14616	False	False	False	False	False	False	False	False	False
14617	False	False	False	False	False	False	False	False	False
14618	False	False	False	False	False	False	False	False	False
14619	False	False	False	False	False	False	False	False	False

14620 rows × 23 columns

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