

```
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)
```

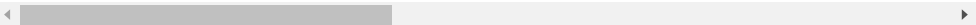
Load the dataset

```
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  Latitude                                 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
```

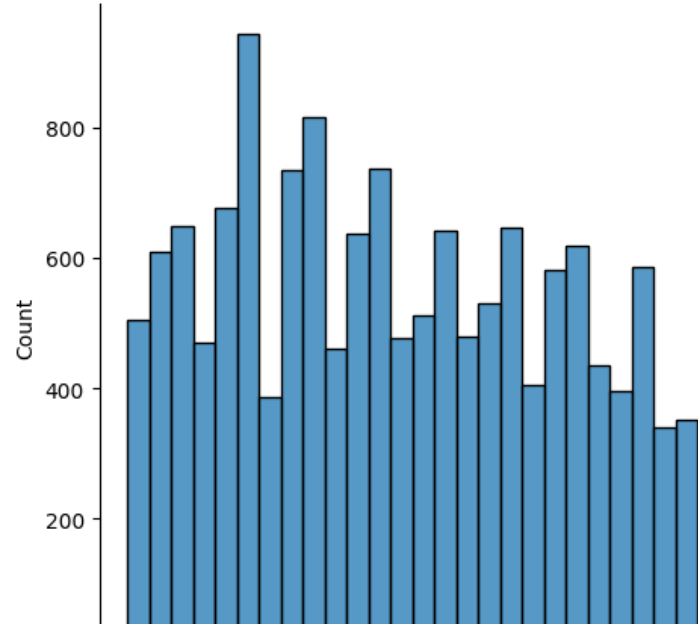
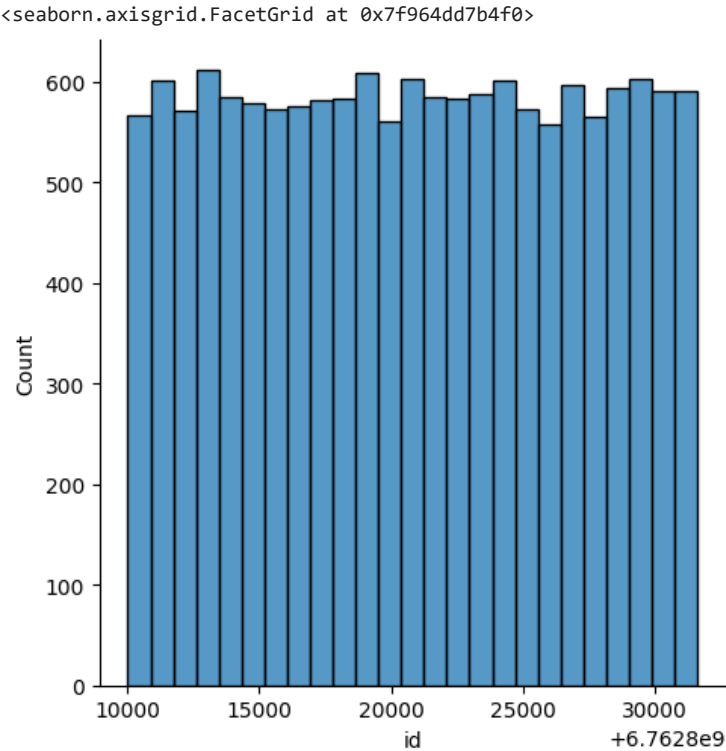
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0
4	6762812919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

5 rows × 23 columns



Univariate

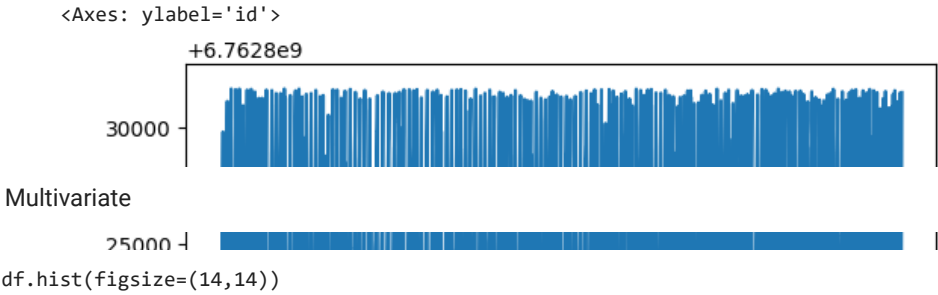
```
sns.displot(df.id)
sns.displot(df.Date)
```



Bi - variate

Date

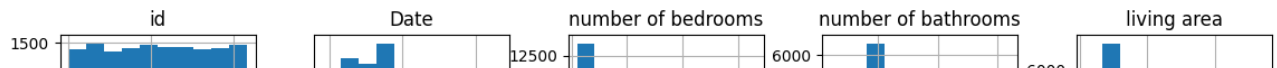
sns.lineplot(df.id)



```

<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)

```



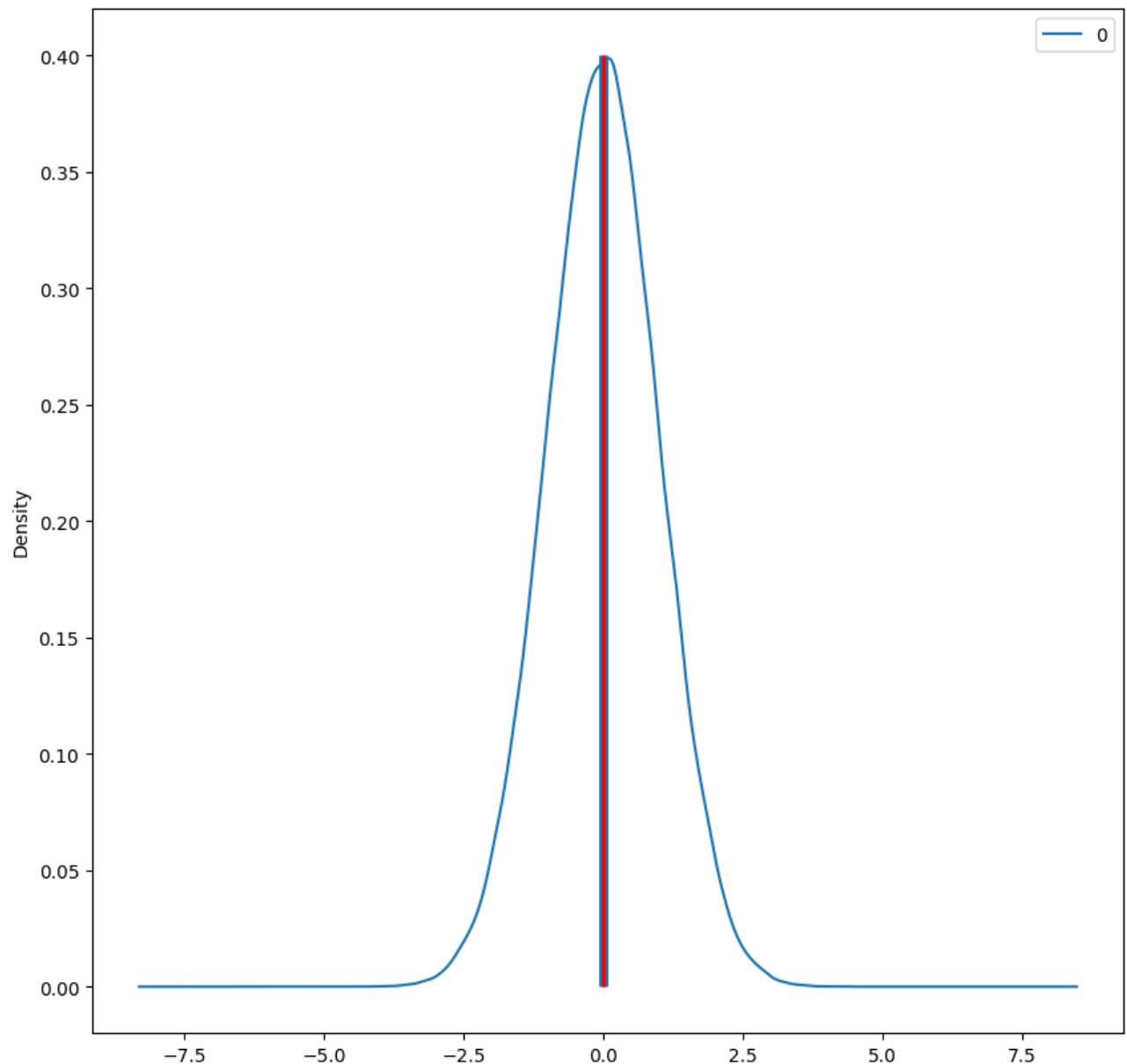
Perform Descriptive statistics on the Dataset



```

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	condition of the house	...	Built Year	Renovatio Yea
0	False	False	False	False	False	False	False	False	False	False	...	False	Fals
1	False	False	False	False	False	False	False	False	False	False	...	False	Fals
2	False	False	False	False	False	False	False	False	False	False	...	False	Fals
3	False	False	False	False	False	False	False	False	False	False	...	False	Fals
4	False	False	False	False	False	False	False	False	False	False	...	False	Fals
...
14615	False	False	False	False	False	False	False	False	False	False	...	False	Fals
14616	False	False	False	False	False	False	False	False	False	False	...	False	Fals
14617	False	False	False	False	False	False	False	False	False	False	...	False	Fals
14618	False	False	False	False	False	False	False	False	False	False	...	False	Fals
14619	False	False	False	False	False	False	False	False	False	False	...	False	Fals

14620 rows × 23 columns

