

# HOUSE PRICE ANALYSIS VISUALIZATION

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Assignment\_3.ipynb - Collaborative

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Assignment\_3.ipynb

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```
!unzip 'content/archive (2).zip'
```

```
[ ] import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sea
```

```
[ ] vs = vs.read_csv('/content/House Price India.csv')
```

```
[ ] vs.head()
```

	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	Latitude	Longitude	living_area_renov	lot_area_renov	Number of schools nearby	Distance from the airport	Price
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5	1921	0	122003	52.8645	-114.557	2880	5400	2	58	2380000
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5	1909	0	122004	52.8878	-114.470	2470	4000	2	51	1400000
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3	1939	0	122004	52.8852	-114.468	2940	6600	1	53	1200000
3	6762812605	42491	4	2.50	3310	42998	2.0	0	0	3	2001	0	122005	52.9532	-114.321	3350	42847	3	76	838000
4	6762812919	42491	3	2.00	2710	4500	1.5	0	0	4	1929	0	122006	52.9047	-114.485	2060	4500	1	51	805000

5 rows x 23 columns

```
vs.shape
```

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ENG 7:51 PM 10/17/2023

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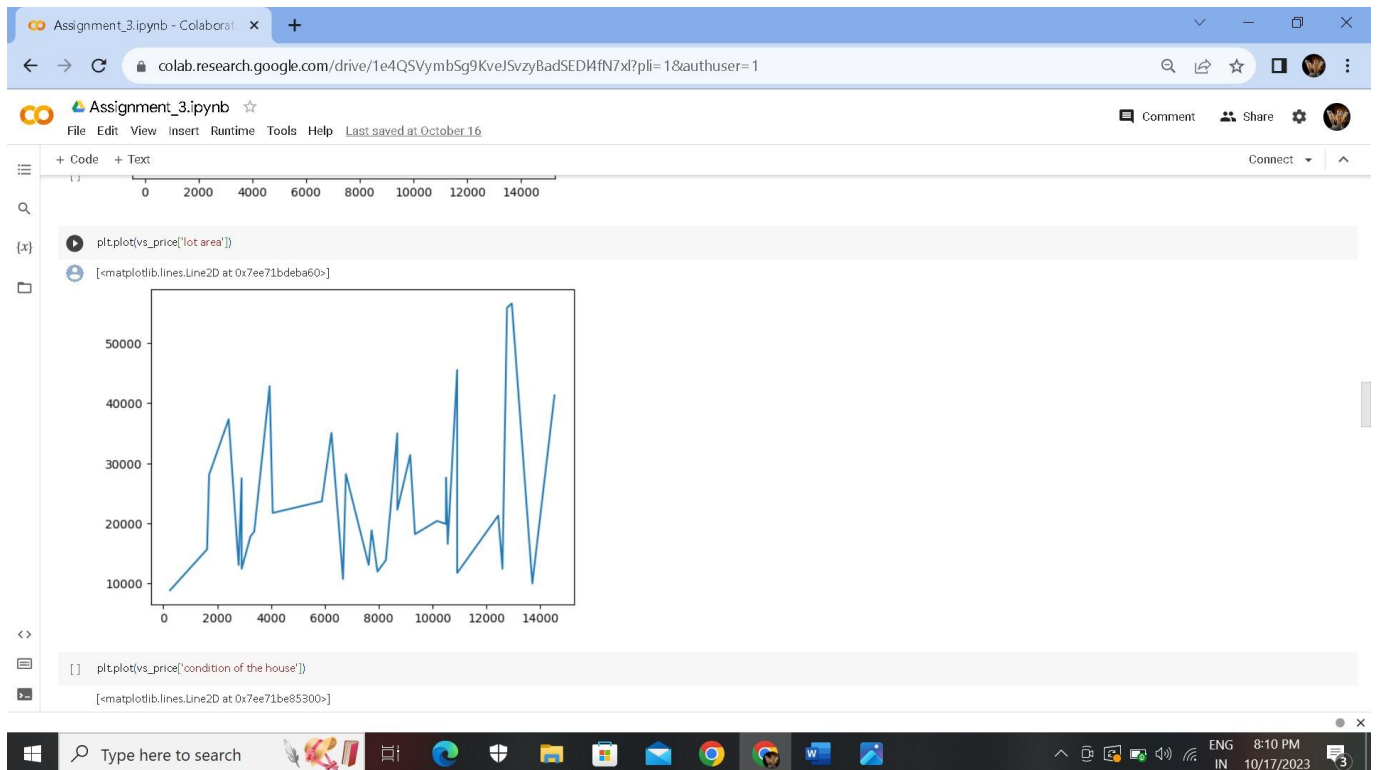
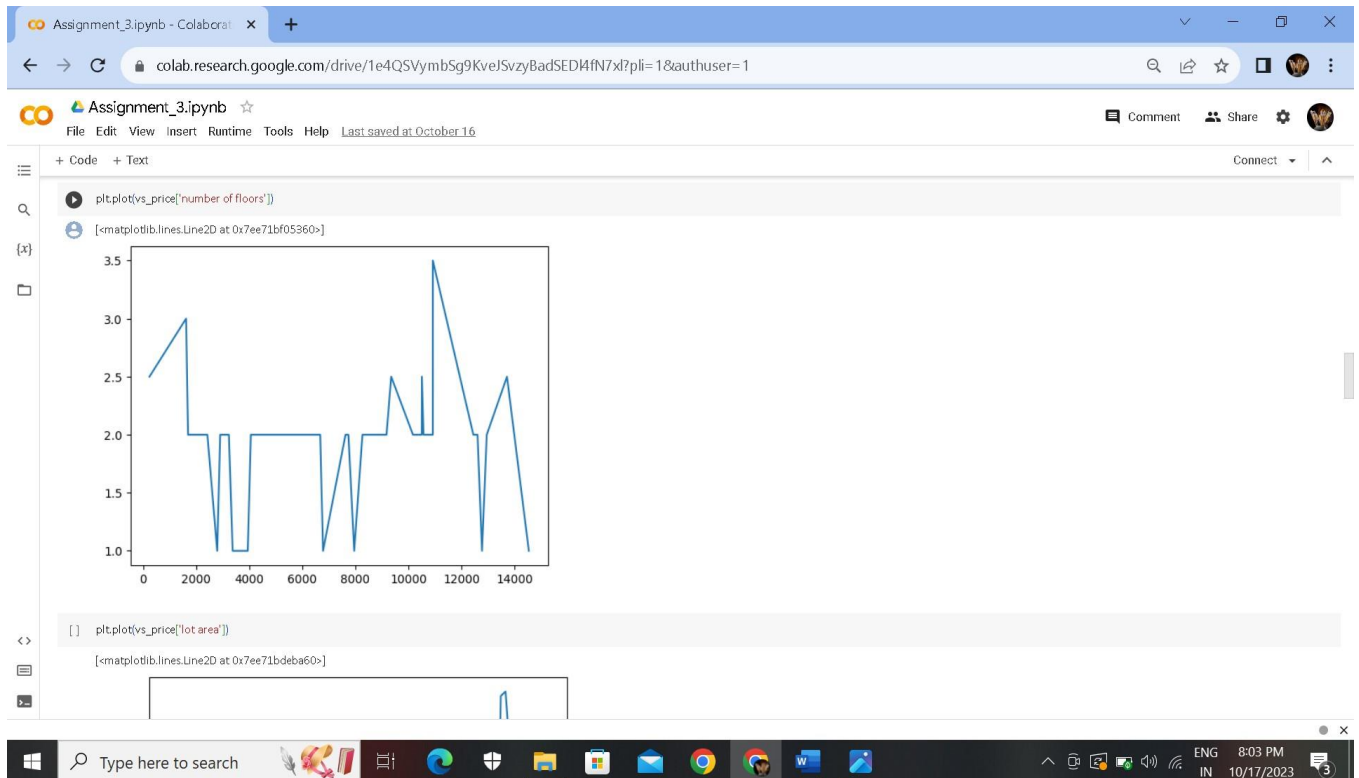
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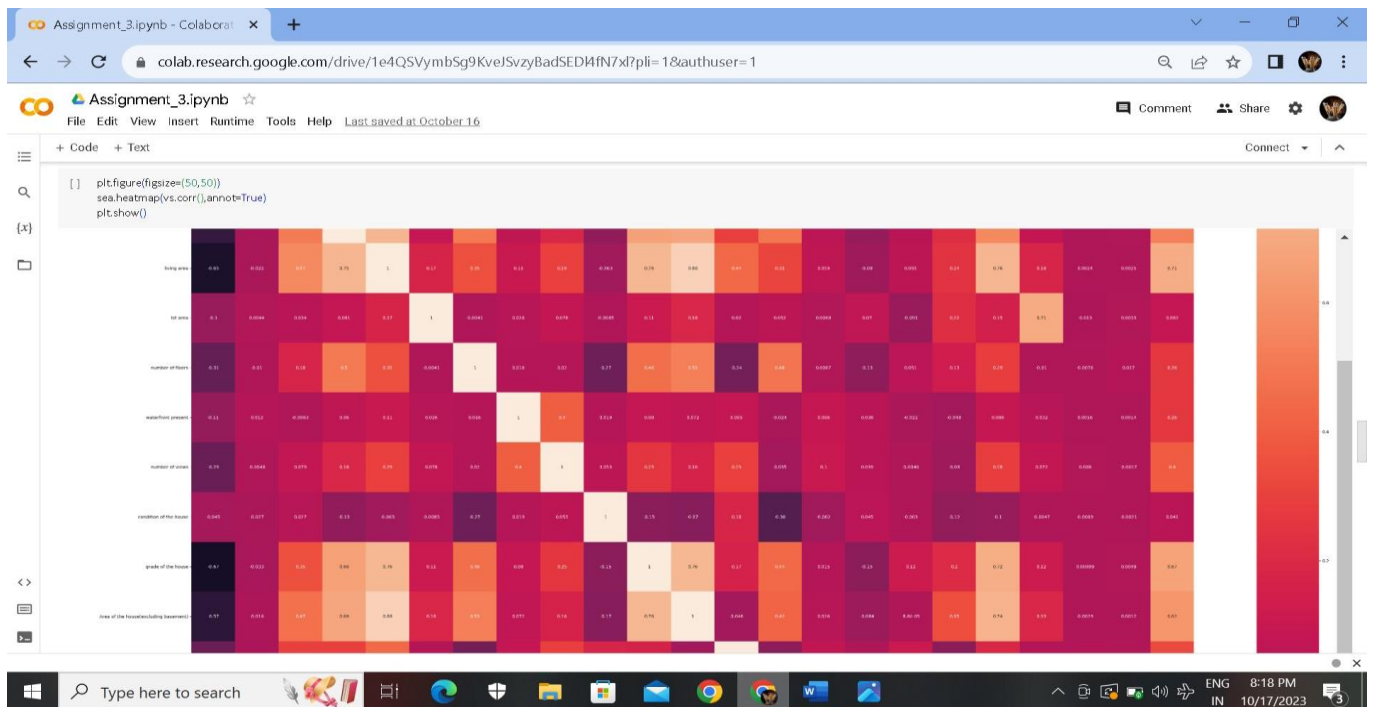
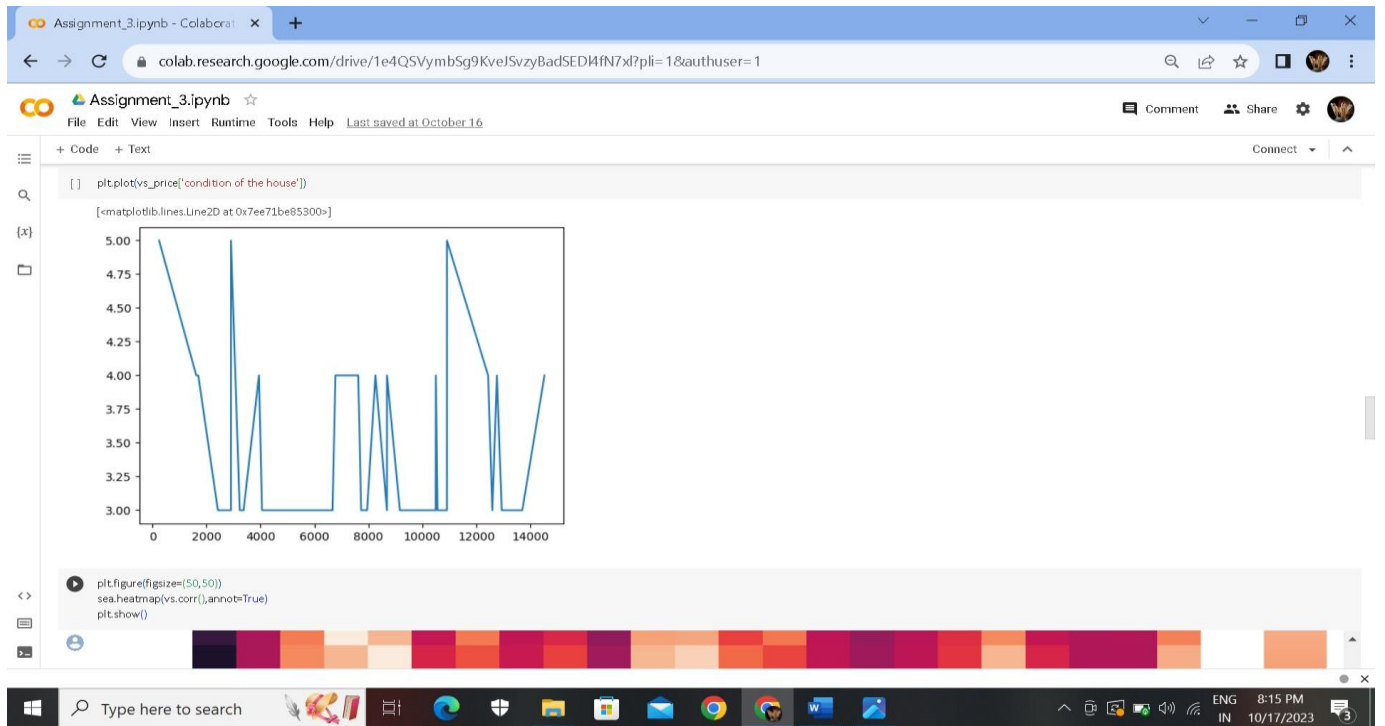
```
vs.info()
```

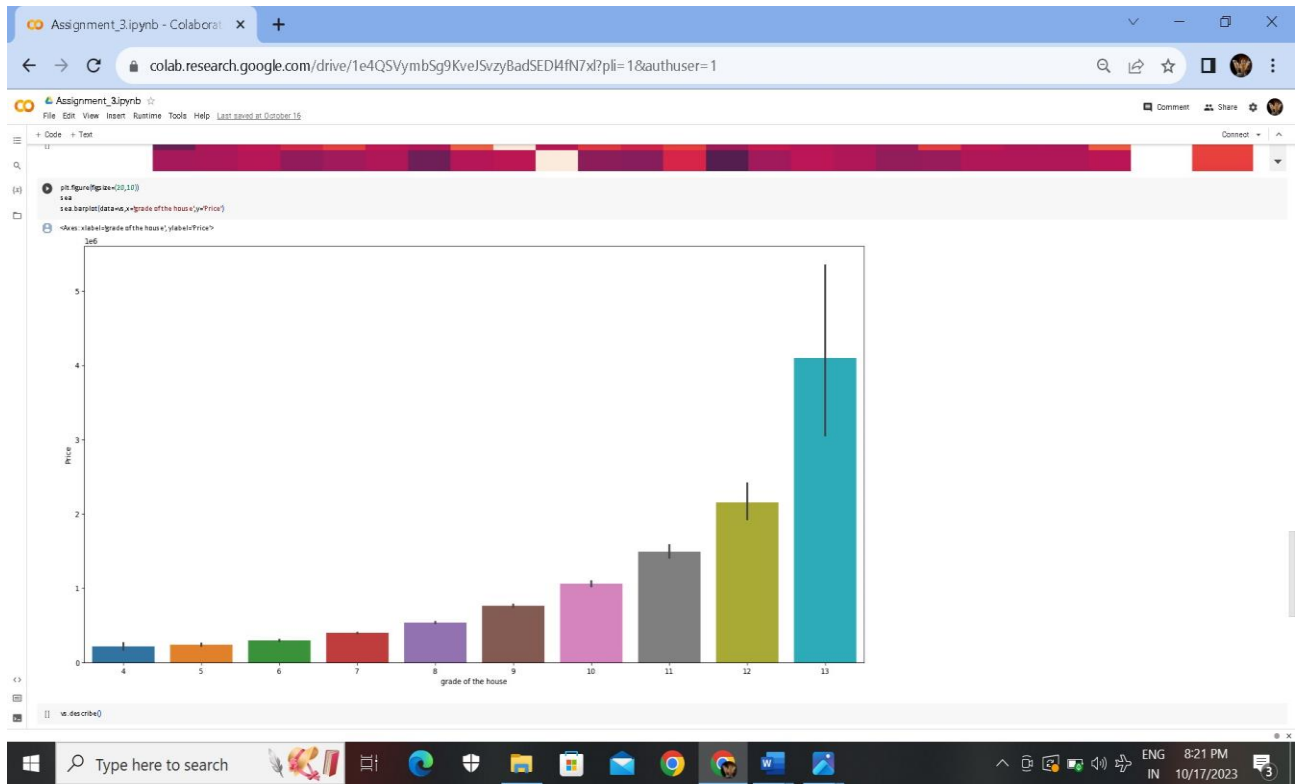
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 14620 entries, 0 to 14619
Data columns (total 23 columns):
#   Column                                     Non-Null Count  Dtype
---  --
0   id                                         14620 non-null  int64
1   Date                                       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
```

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vs.describe()

	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	Latitude	Longitude	living_area_renov	lot_area_renov	Number of schools
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000	14620.000000
mean	6.762821e+09	42804.538646	3.379943	2.122563	2096.262996	1.509932e+04	1.502780	0.007661	0.239105	3.432506	1970.926402	90.924008	122039.062244	52.792848	-114.404007	1996.702257	12753.900068	2.012
std	6.237575e+09	67.347391	0.936719	0.769934	928.275721	3.791962e+04	0.540239	0.087199	0.766259	0.664151	29.493625	416.216661	19.082418	0.137522	0.141326	691.093866	26058.414467	0.817
min	6.762815e+09	42491.000000	1.000000	0.500000	970.000000	5.200000e+02	1.000000	0.000000	0.000000	1.000000	1900.000000	0.000000	122009.000000	52.385900	-114.709000	480.000000	651.000000	1.000
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.000000	5.010750e+03	1.000000	0.000000	0.000000	3.000000	1951.000000	0.000000	122017.000000	52.707600	-114.513000	1490.000000	5097.750000	1.000
50%	6.762821e+09	42600.000000	3.000000	2.250000	1930.000000	7.620000e+03	1.500000	0.000000	0.000000	3.000000	1975.000000	0.000000	122032.000000	52.806400	-114.421000	1880.000000	7620.000000	2.000
75%	6.762825e+09	42662.000000	4.000000	2.500000	2570.000000	1.080000e+04	2.000000	0.000000	0.000000	4.000000	1997.000000	0.000000	122048.000000	52.908900	-114.315000	2380.000000	10125.000000	3.000
max	6.762832e+09	42794.000000	99.000000	8.000000	13640.000000	1.074218e+06	3.500000	1.000000	4.000000	5.000000	2015.000000	2015.000000	122072.000000	53.007600	-113.505000	6110.000000	54061.700000	9.000

8 rows x 19 columns

```
vs['number of floors'].value_counts()
```

```
vs['Renovation Year'].value_counts()
```

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