

# HOUSE PRICE ANALYSIS VISUALIZATION

NAME: VIGNESH C

My IBM x \* New report x REPORT 2 x Item shared with you: "H x Assignment\_3.ipynb - Co x +

colab.research.google.com/drive/1e4QSVymbSg9KveJSvzyBadSEdI4fN7xl?exids=71471476%2C71471470

Assignment\_3.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at October 16

+ Code + Text

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

```
[ ] import pandas as v
import numpy as s
import matplotlib.pyplot as plt
import seaborn as sea
```

```
[ ] vs = v.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
0	6762810145	42491	5	2.50	3650	9050	2.0	0	4	5	...	1921	0	122003	52.8645	-114.557
1	6762810635	42491	4	2.50	2920	4000	1.5	0	0	5	...	1909	0	122004	52.8878	-114.470
2	6762810998	42491	5	2.75	2910	9480	1.5	0	0	3	...	1939	0	122004	52.8852	-114.468

Connected to Python 3 Google Compute Engine backend

79°F Partly sunny

Search

ENG IN 9:42 AM 10/17/2023

My IBM x \* New report x REPORT 2 x Item shared with you: "H x Assignment\_3.ipynb - Co x +

colab.research.google.com/drive/1e4QSVymbSg9KveJSvzyBadSEdI4fN7xl?exids=71471476%2C71471470

Assignment\_3.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at October 16

+ Code + Text

```
[ ] vs_price=vs.loc[vs['Price']>=3000000]
vs_year=vs.loc[vs['Built Year']>1990]
vs_ryear=vs.loc[vs['Renovation Year']>2000]
```

```
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
```

Connected to Python 3 Google Compute Engine backend

79°F Partly sunny

Search

ENG IN 9:43 AM 10/17/2023

My IBM x \* New report x REPORT 2 x Item shared with you: "H x Assignment\_3.ipynb - Co x +

colab.research.google.com/drive/1e4QSVymbSg9KveJSvzyBadSEdI4fN7xl?exids=71471476%2C71471470

Assignment\_3.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at October 16

+ Code + Text

```
[ ] 19 vs_price
    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
```

vs\_price

	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
243	6762810052	42496	7	4.50	6210	8856	2.5	0	2	5	...	1910	0	122061	52.8607	-114.4
1622	6762810059	42518	6	4.25	6980	15682	3.0	0	4	4	...	1999	0	122057	52.7852	-114.4
1697	6762810035	42519	4	3.50	5550	28078	2.0	0	2	4	...	2000	0	122071	52.8695	-114.4
2424	6762810021	42531	5	4.50	10040	37325	2.0	1	2	3	...	1940	2001	122048	52.8800	-114.4
2794	6762810027	42537	5	6.75	9640	13068	1.0	1	4	3	...	1983	2009	122057	52.7870	-114.4
2907	6762810029	42538	4	3.00	6430	27517	2.0	0	0	3	...	2001	0	122048	52.8508	-114.4
2908	6762810065	42538	4	4.25	4850	12445	2.0	1	4	5	...	1989	0	122033	52.9311	-114.4

Connected to Python 3 Google Compute Engine backend

79°F Partly sunny

Search

ENG IN 9:43 AM 10/17/2023

My IBM x \* New report x REPORT 2 x Item shared with you: "H x Assignment\_3.ipynb - Co x +

colab.research.google.com/drive/1e4QSVymbSg9KveJSvzyBadSEdI4fN7xl?exids=71471476%2C71471470

Assignment\_3.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at October 16

+ Code + Text

```
[ ] 19 vs_price
    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
```

vs\_price

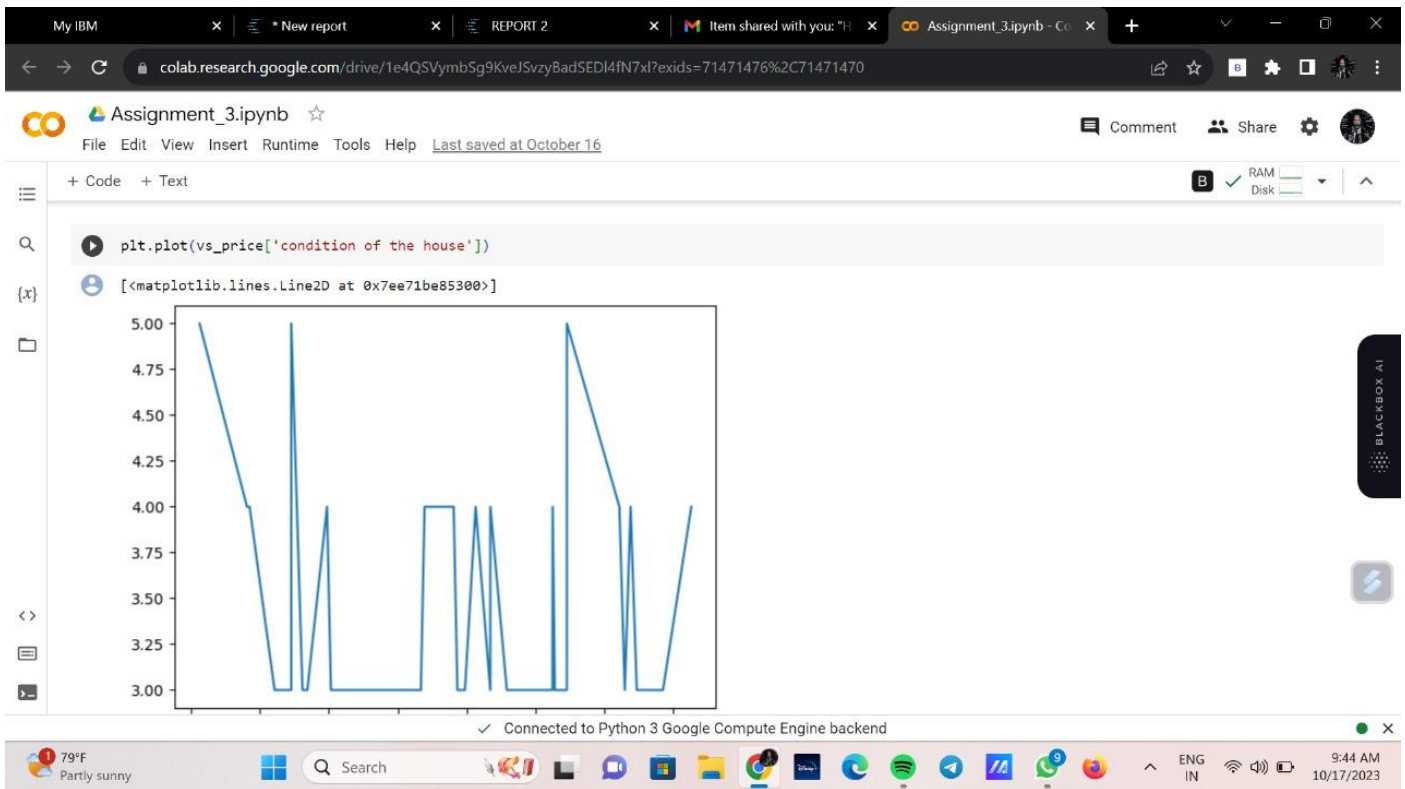
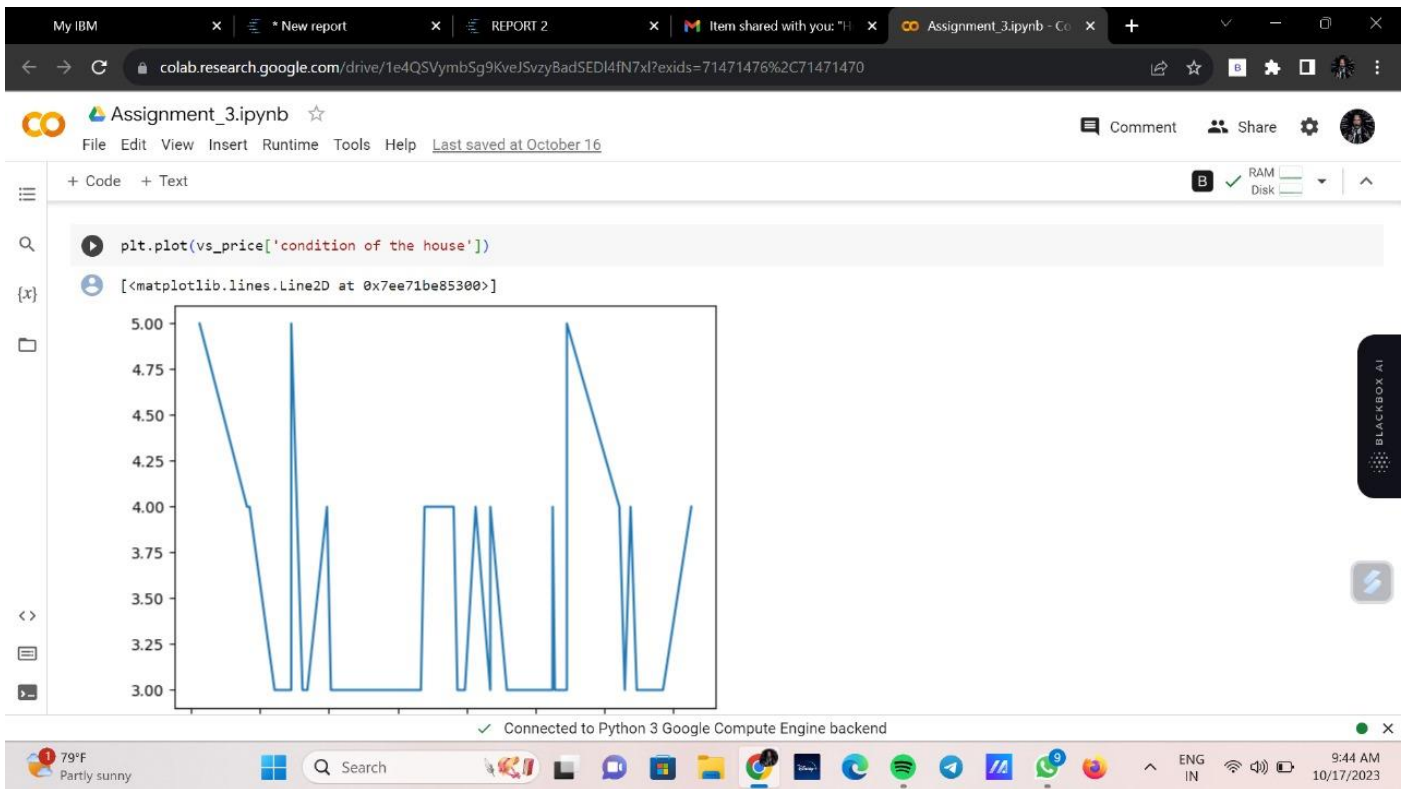
	id	Date	number of bedrooms	number of bathrooms	living area	lot area	number of floors	waterfront present	number of views	condition of the house	...	Built Year	Renovation Year	Postal Code	Latitude	Longitude
243	6762810052	42496	7	4.50	6210	8856	2.5	0	2	5	...	1910	0	122061	52.8607	-114.4
1622	6762810059	42518	6	4.25	6980	15682	3.0	0	4	4	...	1999	0	122057	52.7852	-114.4
1697	6762810035	42519	4	3.50	5550	28078	2.0	0	2	4	...	2000	0	122071	52.8695	-114.4
2424	6762810021	42531	5	4.50	10040	37325	2.0	1	2	3	...	1940	2001	122048	52.8800	-114.4
2794	6762810027	42537	5	6.75	9640	13068	1.0	1	4	3	...	1983	2009	122057	52.7870	-114.4
2907	6762810029	42538	4	3.00	6430	27517	2.0	0	0	3	...	2001	0	122048	52.8508	-114.4
2908	6762810065	42538	4	4.25	4850	12445	2.0	1	4	5	...	1989	0	122033	52.9311	-114.4

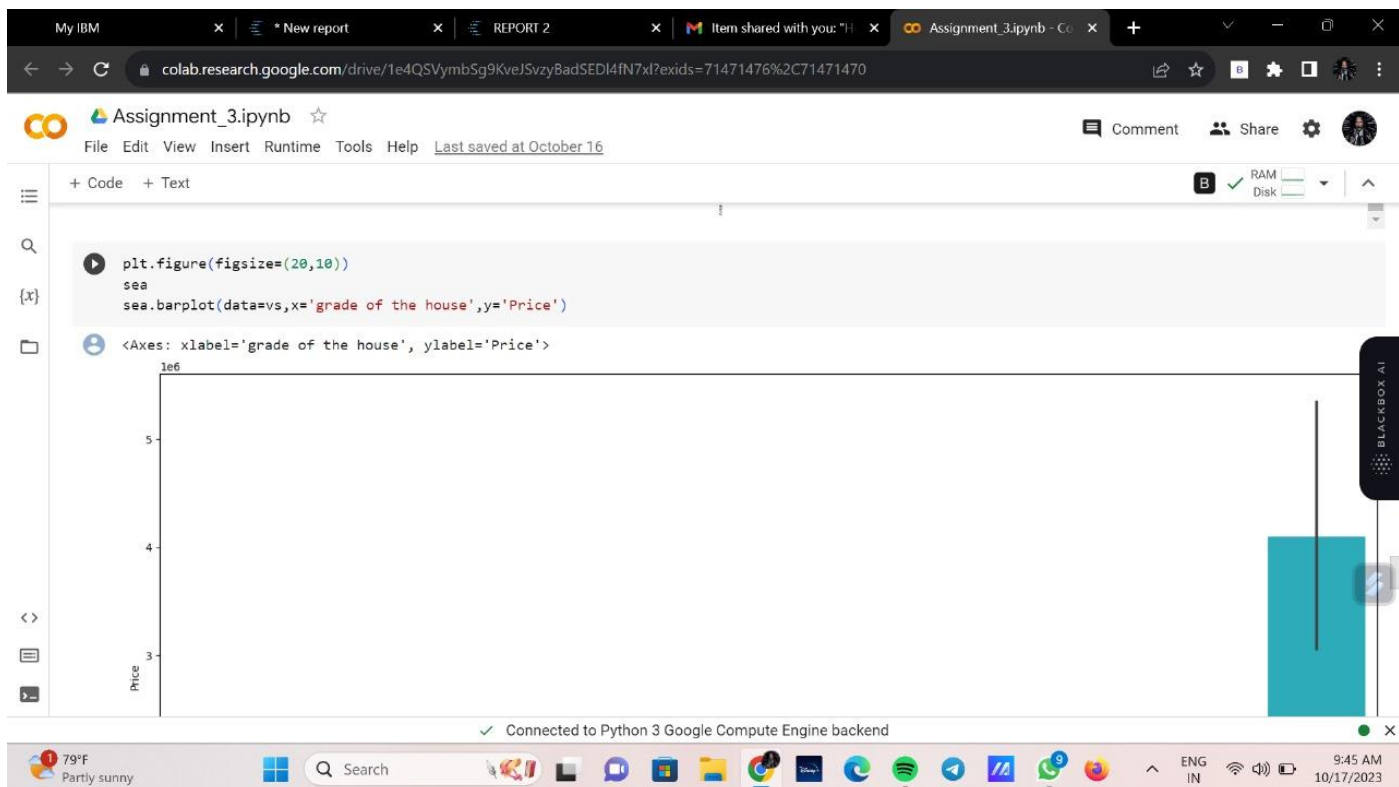
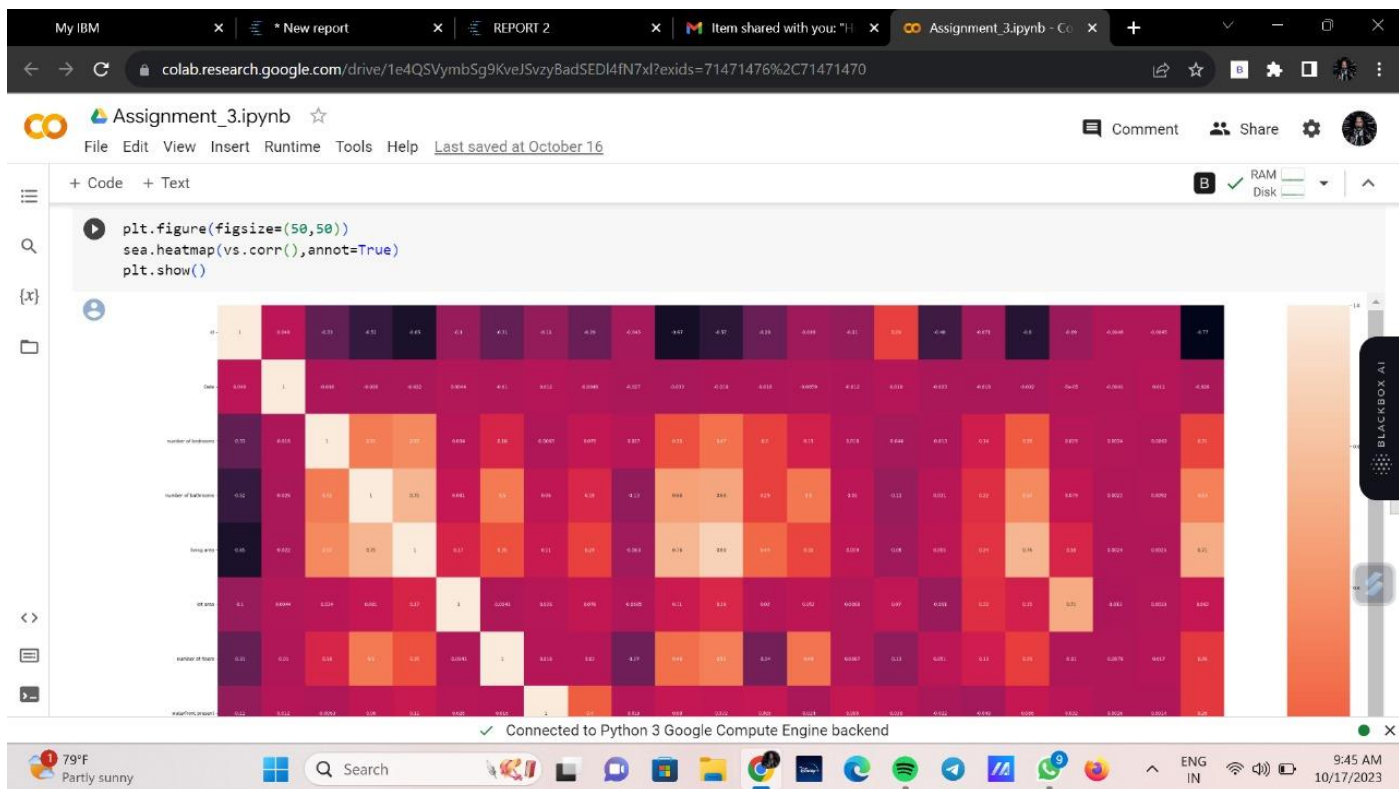
Connected to Python 3 Google Compute Engine backend

79°F Partly sunny

Search

ENG IN 9:44 AM 10/17/2023









Assignment\_3.ipynb ☆

File Edit View Insert Runtime Tools Help Last saved at October 16

Comment Share Settings Profile

+ Code + Text

B ✓ RAM Disk

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	...	Bu
count	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	1.462000e+04	14620.000000	14620.000000	14620.000000	14620.000000	...	
mean	6.762821e+09	42604.538646	3.379343	2.129583	2098.262996	1.509328e+04	1.502360	0.007661	0.233105	3.430506	...	
std	6.237575e+03	67.347991	0.938719	0.769934	928.275721	3.791962e+04	0.540239	0.087193	0.766259	0.664151	...	
min	6.762810e+09	42491.000000	1.000000	0.500000	370.000000	5.200000e+02	1.000000	0.000000	0.000000	1.000000	...	
25%	6.762815e+09	42546.000000	3.000000	1.750000	1440.000000	5.010750e+03	1.000000	0.000000	0.000000	3.000000	...	19!
50%	6.762821e+09	42600.000000	3.000000	2.250000	1930.000000	7.620000e+03	1.500000	0.000000	0.000000	3.000000	...	19'
75%	6.762826e+09	42662.000000	4.000000	2.500000	2570.000000	1.080000e+04	2.000000	0.000000	0.000000	4.000000	...	19'
max	6.762832e+09	42734.000000	33.000000	8.000000	13540.000000	1.074218e+06	3.500000	1.000000	4.000000	5.000000	...	20'

8 rows x 23 columns

✓ Connected to Python 3 Google Compute Engine backend