



OLS Regression Results						
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Dep. Variable:	price	R-squared:	0.507			
Model:	OLS	Adj. R-squared:	0.507			
Method:	Least Squares	F-statistic:	6656.			
Date:	Sun, 19 Mar 2023	Prob (F-statistic):	0.00			
Time:	21:52:40	Log-Likelihood:	-90024.			
No. Observations:	6484	AIC:	1.801e+05			
Df Residuals:	6482	BIC:	1.801e+05			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-4.348e+04	7855.020	-5.535	0.000	-5.89e+04	-2.81e+04
sqft_living	279.8463	3.430	81.584	0.000	273.122	286.571
=====						
Omnibus:	4448.786	Durbin-Watson:	2.006			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	182253.906			
Skew:	2.762	Prob(JB):	0.00			
Kurtosis:	28.379	Cond. No.	5.59e+03			
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Notes:						
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.						
[2] The condition number is large, 5.59e+03. This might indicate that there are strong multicollinearity or other numerical problems.						

	sqft_living	price
17719	2030	572500.0
10646	3670	883000.0
1949	1008	480000.0
20322	4410	1240000.0
2072	1200	225000.0
...
6500	3450	755000.0
19857	3100	435000.0
14528	2300	294000.0
899	1260	291500.0
12706	2460	835000.0
15129 rows × 2 columns		

[[16 0 0 0 0]					
[0 3 0 0 0]					
[0 0 10 0 0]					
[0 0 0 6 0]					
[0 0 0 0 5]]					
	precision	recall	f1-score	support	
1	1.00	1.00	1.00	16	
2	1.00	1.00	1.00	3	
3	1.00	1.00	1.00	10	
4	1.00	1.00	1.00	6	
5	1.00	1.00	1.00	5	
accuracy			1.00	40	
macro avg	1.00	1.00	1.00	40	
weighted avg	1.00	1.00	1.00	40	

	id	date	price	bedrooms	bathroom	sqft_living	sqft_lot	floors	waterfront	view	...	grade	sqft_above	sqft_basement	yr_built	yr_renovated	zipcode	lat
0	7129300520	20141013T000000	221900.0	3	1.00	1180	5650	1.0	0	0	...	7	1180	0	1955	0	98178	47.5112
1	6414100192	20141209T000000	538000.0	3	2.25	2570	7242	2.0	0	0	...	7	2170	400	1951	1991	98125	47.7210
2	5631500400	20150225T000000	180000.0	2	1.00	770	10000	1.0	0	0	...	6	770	0	1933	0	98028	47.7379
3	2487200875	20141209T000000	604000.0	4	3.00	1960	5000	1.0	0	0	...	7	1050	910	1965	0	98136	47.5208
4	1954400510	20150218T000000	510000.0	3	2.00	1680	8080	1.0	0	0	...	8	1680	0	1987	0	98074	47.6168
5	7237550310	20140512T000000	1225000.0	4	4.50	5420	101930	1.0	0	0	...	11	3890	1530	2001	0	98053	47.6561
6	1321400060	20140627T000000	257500.0	3	2.25	1715	6819	2.0	0	0	...	7	1715	0	1995	0	98003	47.3097
7	2008000270	20150115T000000	291850.0	3	1.50	1060	9711	1.0	0	0	...	7	1060	0	1963	0	98198	47.4095
8	2414600126	20150415T000000	229500.0	3	1.00	1780	7470	1.0	0	0	...	7	1050	730	1960	0	98146	47.5123
9	3793500160	20150312T000000	323000.0	3	2.50	1890	6560	2.0	0	0	...	7	1890	0	2003	0	98038	47.3684
10	1736800520	20150403T000000	662500.0	3	2.50	3560	9796	1.0	0	0	...	8	1860	1700	1965	0	98007	47.6007
11	9212900260	20140527T000000	468000.0	2	1.00	1160	6000	1.0	0	0	...	7	860	300	1942	0	98115	47.6900
12	114101516	20140528T000000	310000.0	3	1.00	1430	19901	1.5	0	0	...	7	1430	0	1927	0	98028	47.7558
13	6054650070	20141007T000000	400000.0	3	1.75	1370	9680	1.0	0	0	...	7	1370	0	1977	0	98074	47.6127
14	1175000570	20150312T000000	530000.0	5	2.00	1810	4850	1.5	0	0	...	7	1810	0	1900	0	98107	47.6700
15	9297300055	20150124T000000	650000.0	4	3.00	2950	5000	2.0	0	3	...	9	1980	970	1979	0	98126	47.5714
16	1875500060	20140731T000000	395000.0	3	2.00	1890	14040	2.0	0	0	...	7	1890	0	1994	0	98019	47.7277
17	6865200140	20140529T000000	485000.0	4	1.00	1600	4300	1.5	0	0	...	7	1600	0	1916	0	98103	47.6648
18	16000397	20141205T000000	189000.0	2	1.00	1200	9850	1.0	0	0	...	7	1200	0	1921	0	98002	47.3089
19	7983200060	20150424T000000	230000.0	3	1.00	1250	9774	1.0	0	0	...	7	1250	0	1969	0	98003	47.3343

20 rows × 21 columns

id	0
date	0
price	0
bedrooms	0
bathrooms	0
sqft_living	0
sqft_lot	0
floors	0
waterfront	0
view	0
condition	0
grade	0
sqft_above	0
sqft_basement	0
yr_built	0
yr_renovated	0
zipcode	0
lat	0
long	0
sqft_living15	0
sqft_lot15	0
dtype: int64	

	id	price	bedrooms	bathrooms	sqft_living	sqft_lot	floors	waterfront	view	condition	grade	sqft_above	sqft_basement	
count	2.161300e+04	2.161300e+04	21613.000000	21613.000000	21613.000000	2.161300e+04	21613.000000	21613.000000	21613.000000	21613.000000	21613.000000	21613.000000	21613.000000	21613.000000
mean	4.580302e+09	5.400881e+05	3.370842	2.114757	2079.899736	1.510697e+04	1.494309	0.007542	0.234303	3.409430	7.656873	1788.390691	291.509045	1.510697e+04
std	2.876566e+09	3.671272e+05	0.930062	0.770163	918.440897	4.142051e+04	0.539989	0.086517	0.766318	0.650743	1.175459	828.090978	442.575043	4.142051e+04
min	1.000102e+06	7.500000e+04	0.000000	0.000000	290.000000	5.200000e+02	1.000000	0.000000	0.000000	1.000000	1.000000	290.000000	0.000000	5.200000e+02
25%	2.123049e+09	3.219500e+05	3.000000	1.750000	1427.000000	5.040000e+03	1.000000	0.000000	0.000000	3.000000	7.000000	1190.000000	0.000000	5.040000e+03
50%	3.904930e+09	4.500000e+05	3.000000	2.250000	1910.000000	7.618000e+03	1.500000	0.000000	0.000000	3.000000	7.000000	1560.000000	0.000000	7.618000e+03
75%	7.308900e+09	6.450000e+05	4.000000	2.500000	2550.000000	1.068800e+04	2.000000	0.000000	0.000000	4.000000	8.000000	2210.000000	560.000000	1.068800e+04
max	9.900000e+09	7.700000e+06	33.000000	8.000000	13540.000000	1.651359e+06	3.500000	1.000000	4.000000	5.000000	13.000000	9410.000000	4820.000000	13540.000000

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 21613 entries, 0 to 21612
Data columns (total 21 columns):
#   Column                Non-Null Count  Dtype
---  -
0   id                     21613 non-null  int64
1   date                   21613 non-null  object
2   price                  21613 non-null  float64
3   bedrooms               21613 non-null  int64
4   bathrooms              21613 non-null  float64
5   sqft_living            21613 non-null  int64
6   sqft_lot               21613 non-null  int64
7   floors                 21613 non-null  float64
8   waterfront             21613 non-null  int64
9   view                   21613 non-null  int64
10  condition              21613 non-null  int64
11  grade                  21613 non-null  int64
12  sqft_above             21613 non-null  int64
13  sqft_basement          21613 non-null  int64
14  yr_built               21613 non-null  int64
15  yr_renovated           21613 non-null  int64
16  zipcode                21613 non-null  int64
17  lat                    21613 non-null  float64
18  long                   21613 non-null  float64
19  sqft_living15          21613 non-null  int64
20  sqft_lot15             21613 non-null  int64
dtypes: float64(5), int64(15), object(1)
memory usage: 3.5+ MB
None
```

	sqft_living	price
0	1180	221900.0
1	2570	538000.0
2	770	180000.0
3	1960	604000.0
4	1680	510000.0
...
21608	1530	360000.0
21609	2310	400000.0
21610	1020	402101.0
21611	1600	400000.0
21612	1020	325000.0

21613 rows × 2 columns

