



Predict sales price

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CASE STUDY

Build a machine learning model to predict the selling prices of houses

OBJECTIVE

To build a model that will predict the price of a house based on features provided in the dataset. Senior management also wants to explore the characteristics of the houses using some business intelligence tools.



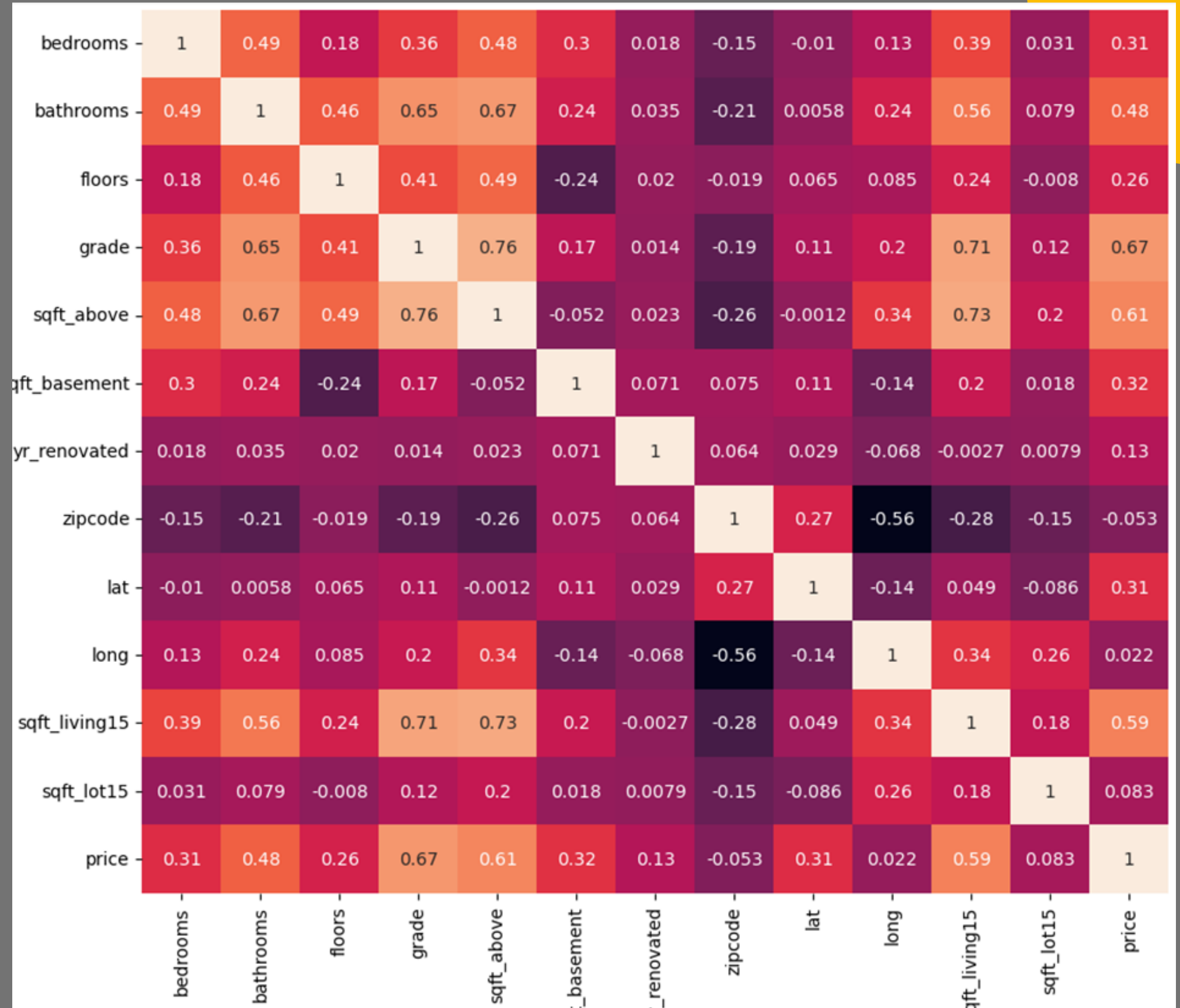


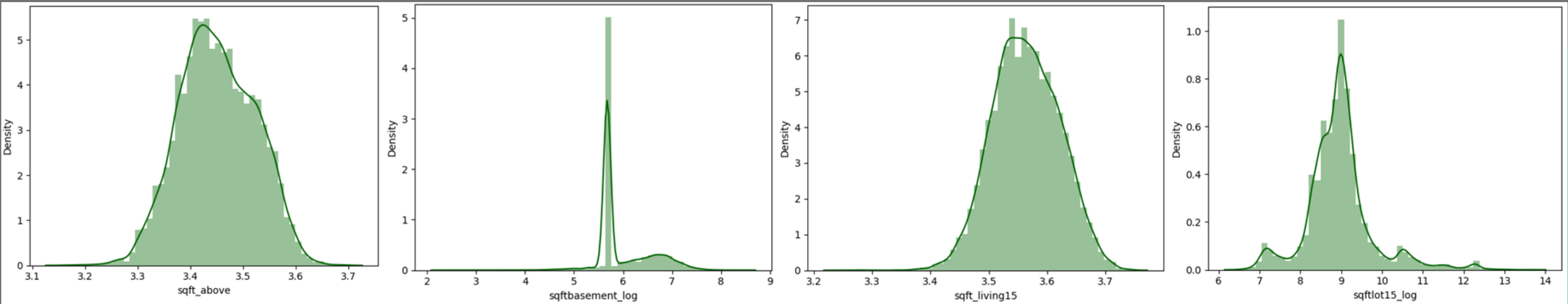
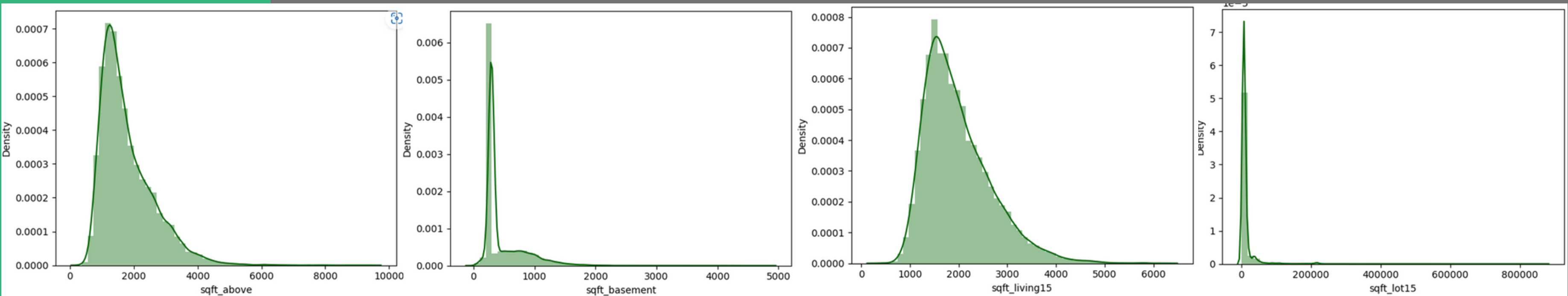
CATEGORICAL DATA

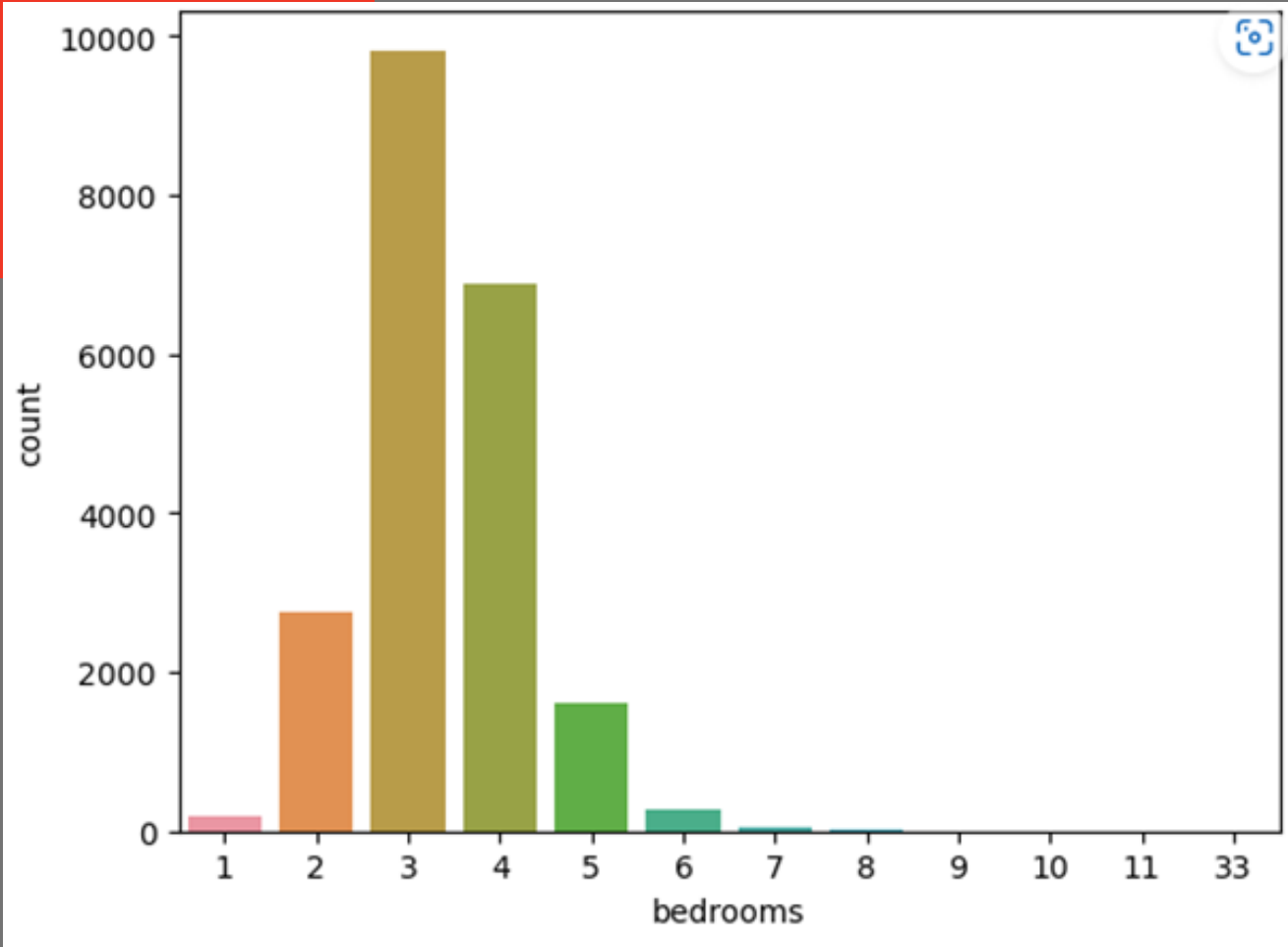


NUMERICAL DATA

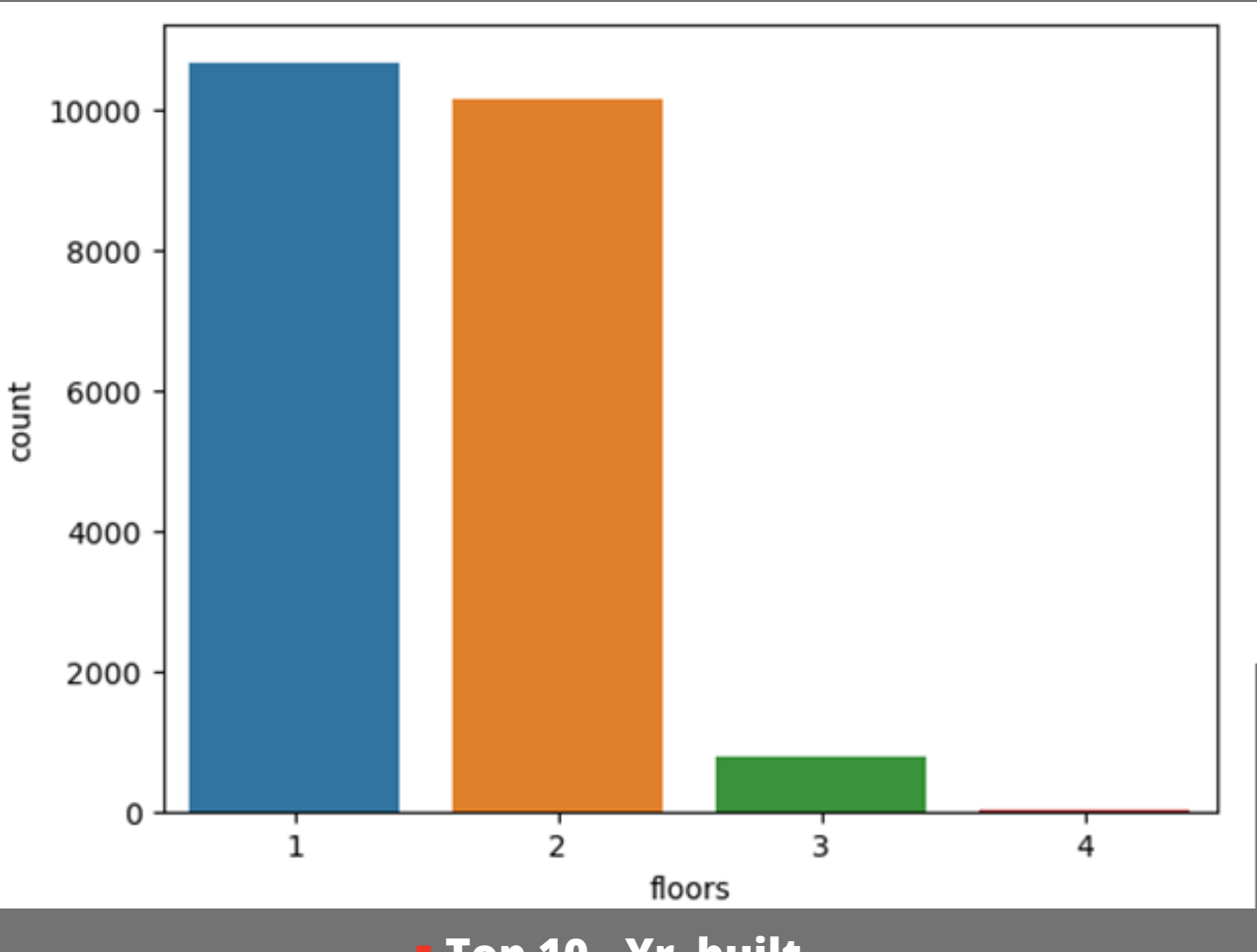
- BEDROOMS
- BATHROOMS
- FLOORS
- SQFT_AVOBE
- SQFT_BASEMENT
- YR_BUILT
- ZIPCODE
- LAT
- LONG
- SQFT_LIVING15
- SQFT_LOT15
- PRICE





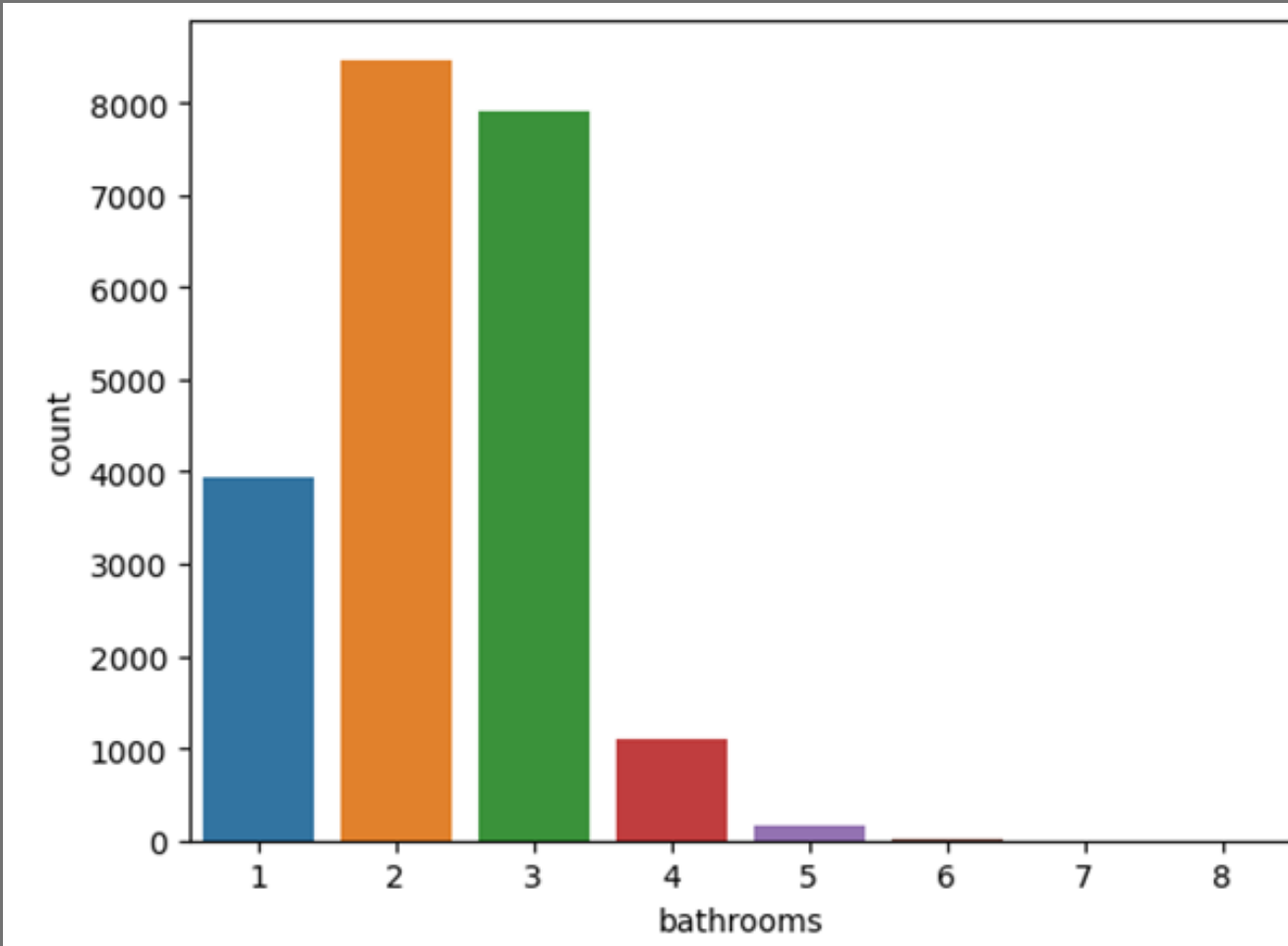


bedrooms	#houses
0	3
1	4
2	2
3	5
4	6
5	1
6	7
7	8
8	9
9	10
10	11
11	33

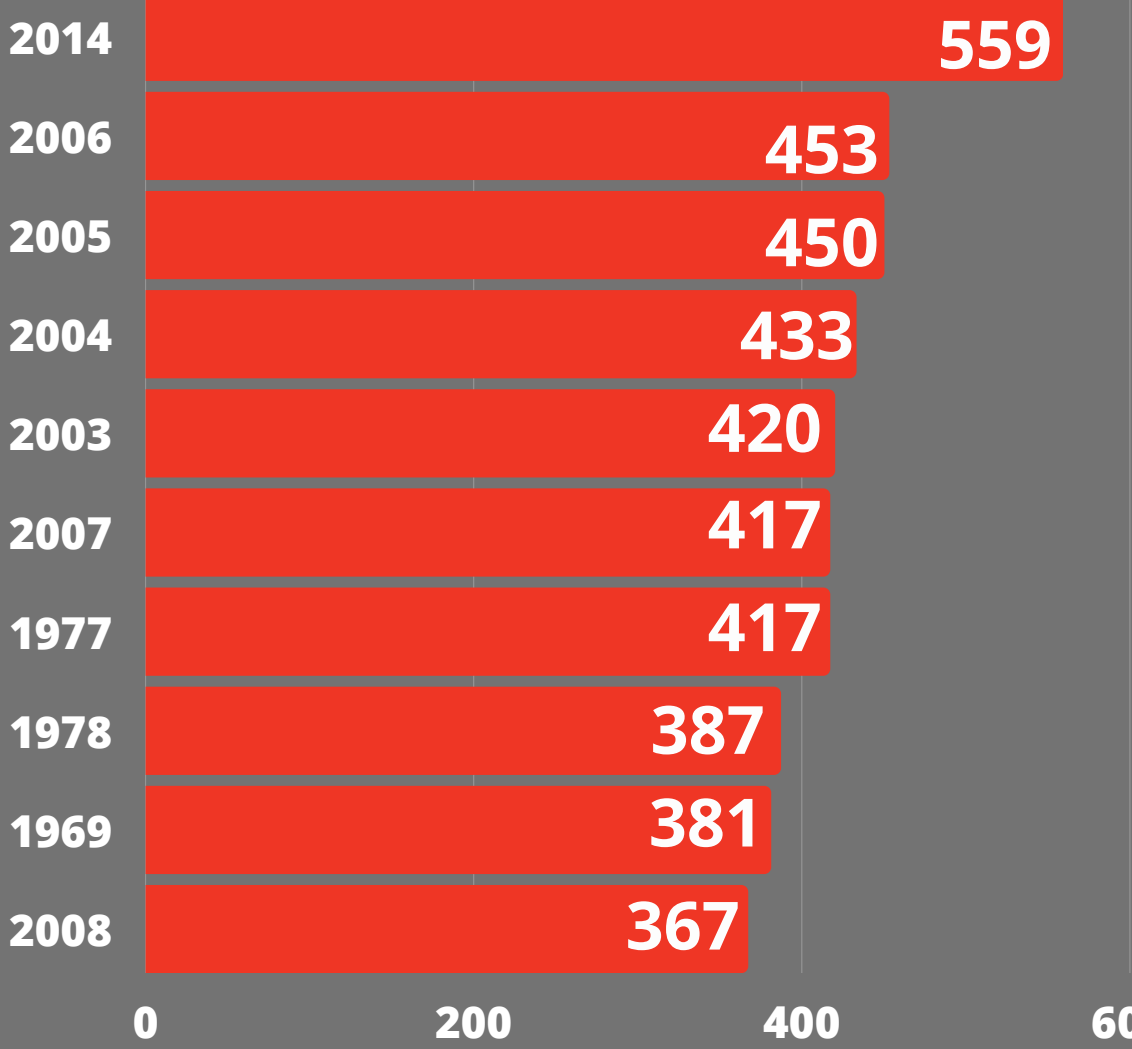


floors	#houses
0	1
1	2
2	3
3	4

Top 10 - Yr_built



bathrooms	#houses
0	2
1	3
2	1
3	4
4	5
5	6
6	7
7	8



LINEAR REGRESSION

Normalizer

OneHotEncoder

train_test_split

linear_model

r2_score

$$R^2 = 0.72$$





AVERAGE PRICE
BY BATHROOMS,
BEDROOMS,
YEAR AND
ZIPCODE



AVERAGE PRICE
BY
FLOORS,CONDITI
ON,WATERFRONT
AND VIEW

THANKS