



House Sales Analysis in Northwestern County

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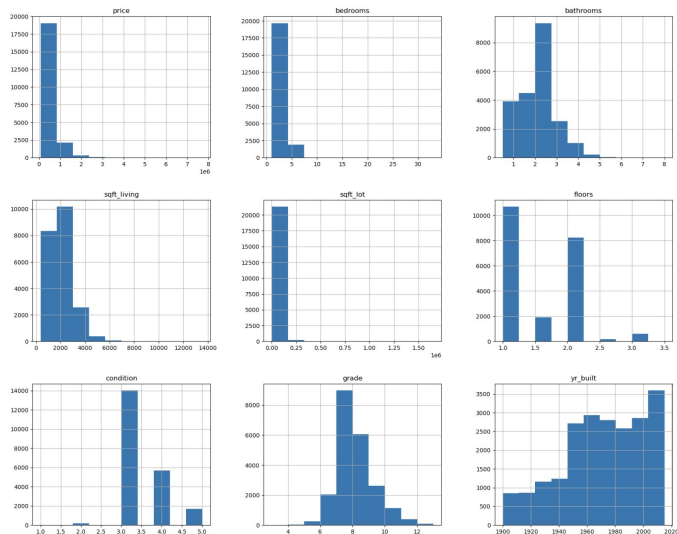


The Data

```
In [ ]: df_kchouse.info()

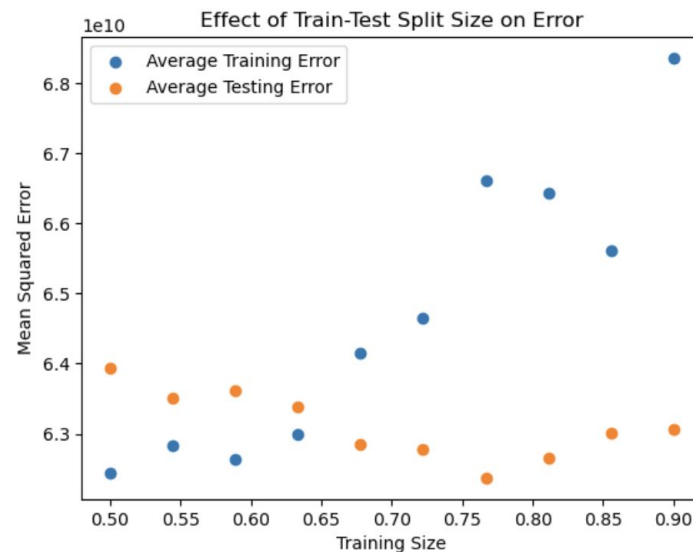
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 21597 entries, 0 to 21596
Data columns (total 21 columns):
#   Column              Non-Null Count  Dtype  
---  -
0   id                   21597 non-null  int64  
1   date                 21597 non-null  object  
2   price                21597 non-null  float64 
3   bedrooms             21597 non-null  int64  
4   bathrooms            21597 non-null  float64 
5   sqft_living          21597 non-null  int64  
6   sqft_lot             21597 non-null  int64  
7   floors               21597 non-null  float64 
8   waterfront           19221 non-null  float64 
9   view                 21534 non-null  float64 
10  condition            21597 non-null  int64  
11  grade                21597 non-null  int64  
12  sqft_above           21597 non-null  int64  
13  sqft_basement        21597 non-null  object  
14  yr_built              21597 non-null  int64  
15  yr_renovated          17755 non-null  float64 
16  zipcode              21597 non-null  int64  
17  lat                  21597 non-null  float64 
18  long                 21597 non-null  float64 
19  sqft_living15         21597 non-null  int64  
20  sqft_lot15           21597 non-null  int64  
dtypes: float64(8), int64(11), object(2)
memory usage: 3.5+ MB
```

Creating code to see any trends in the data

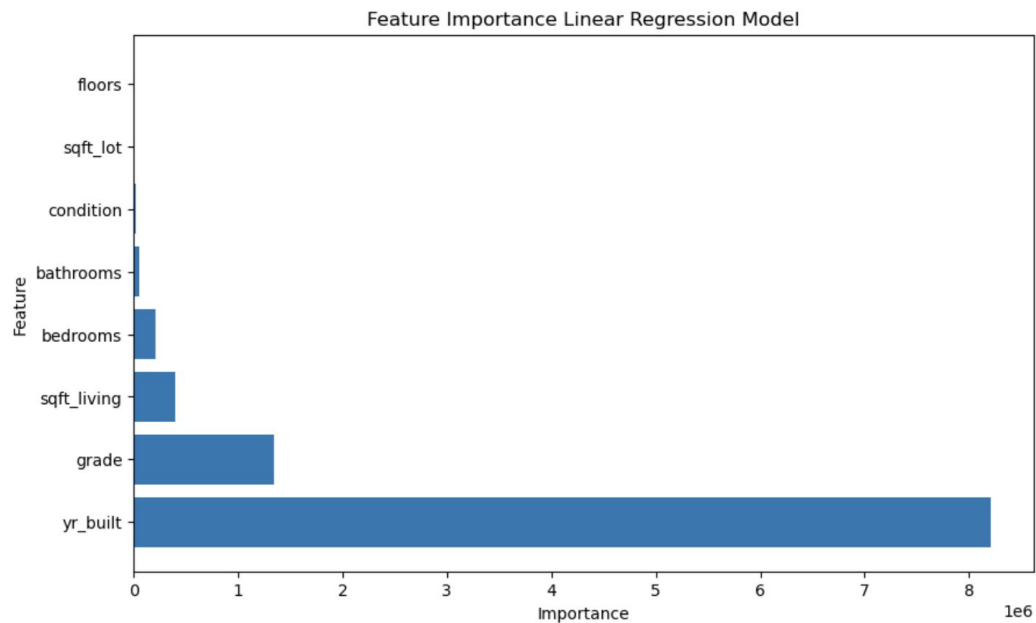


Training MSE: 61856525489.76321

Test MSE: 67077736673.71412



Definitive Results



Conclusions

- Underfitting data - possibly due too many outliers present in the data
- The year that the house was built has significant impact on house price- much more influential then the other factors
- Analysts should consider from this data the build year, the grade a house is given and the size of the house.