



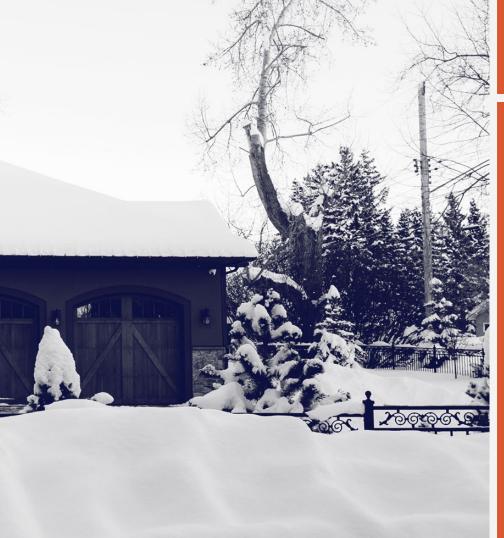
REALTY KINGS

King County Housing Prices

Linear Regression Analysis

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Our Goal

- Use exploratory data analysis to gain insight into the king county housing market.
- Determine the features of a home that best predict its price.
- Build a model to predict home prices with the best features(predictors).



1. EDA's

EDA's based on our model.

3. Recommendations

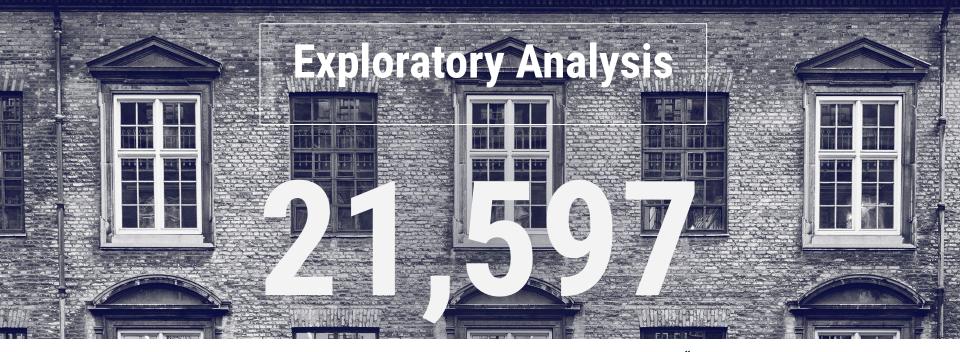
Recommendations based on our model.

2. Model

We then demonstrate our model using the selected features.

4. Future Work

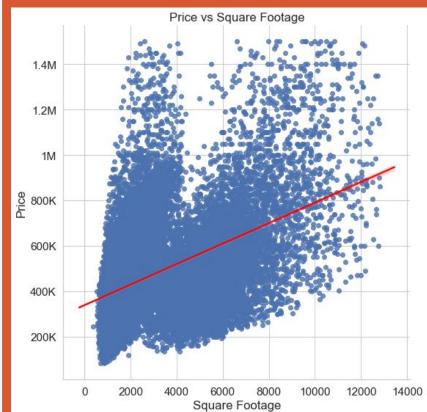
What we would like to dive deeper into before building another model.



Properties sold in between 2014 - 2015 for an average price of \$540,296

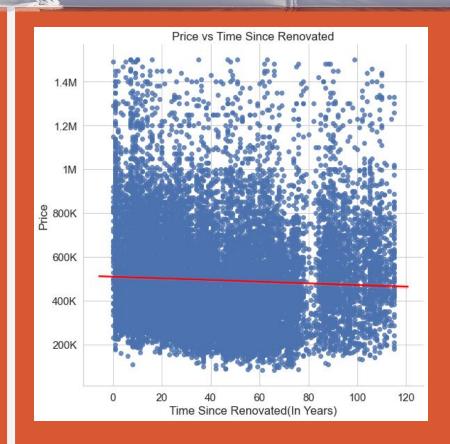


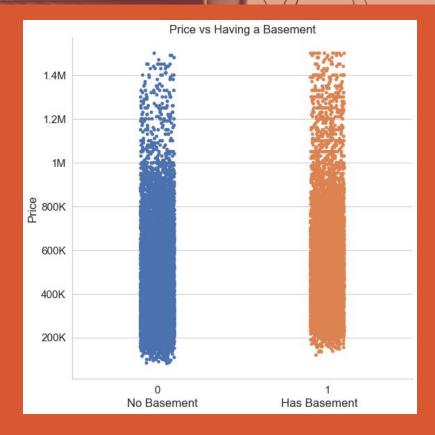






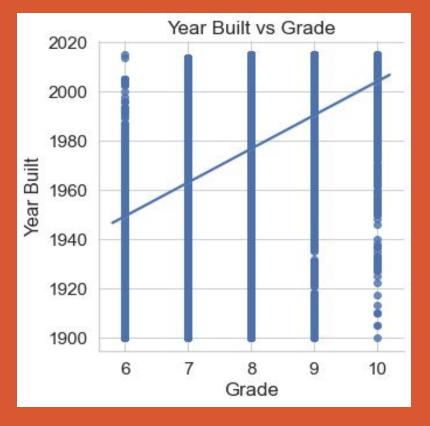
EDA



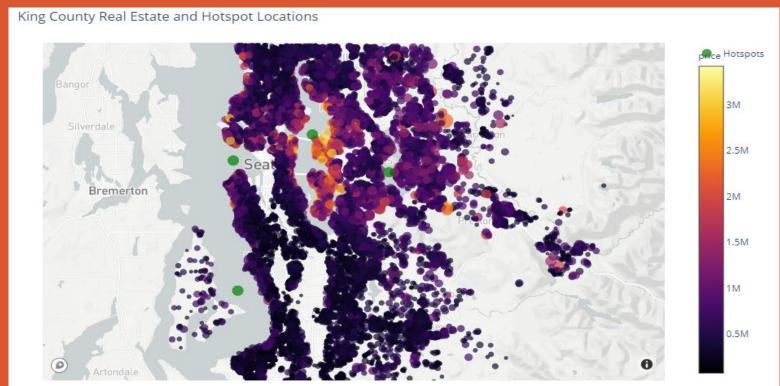


EDA



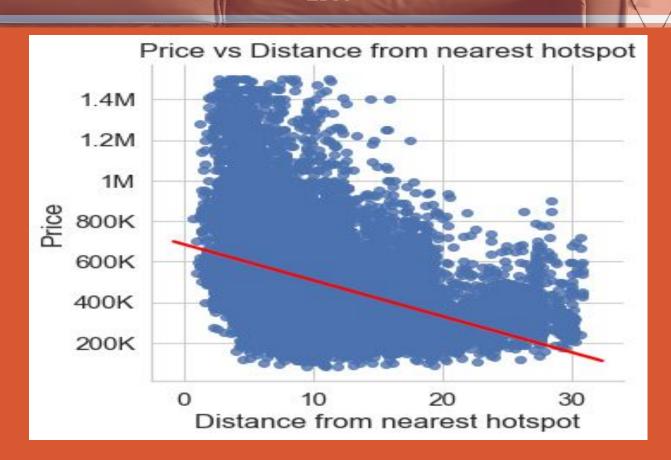






So as you can see, the closer a house is to a waterfront, the higher its price will be.

EDA





BEST MODEL PREDICTORS



Renovation

yes/no * 1.26*10^5

Views

#views * 6.903*10^4

Basement

yes/no * 4.428*10^4

Conditon/Grade^2

Meta score^2 * 3942.97

Time Since Renovation

Time * -291.362





- 1) Renovation Make renovations. Renovations will affect grade which in turn affects Price to be higher.
 Renovations ~ Grade ~ Price
 Renovations ~ No. of rooms ~ Price
- 2) Views Increase view count. Higher view count will result in more offers which will potentially increase house value. In Zillow, more view counts results in the property being classified as "hot".



Future Work

Obtain more diverse data:

- Distance from important areas of note such as:
 - Schools/Colleges
 - Hospitals
 - Major Employers
- Greater range of when houses were sold outside of timeframe provided
- Zip Code and School District investigation
- Frequency of Sale and Prior Sales Prices

Model Refinement with improved accuracy and predictors

OUR TEAM



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