

Overview

 We have been hired to create a model that will identify key features that help predict housing prices in King County, WA

Steps

- 1. Explore and clean the King County Dataset
- 2. Select which features to include in our model
- 3. Model our data

Model Information

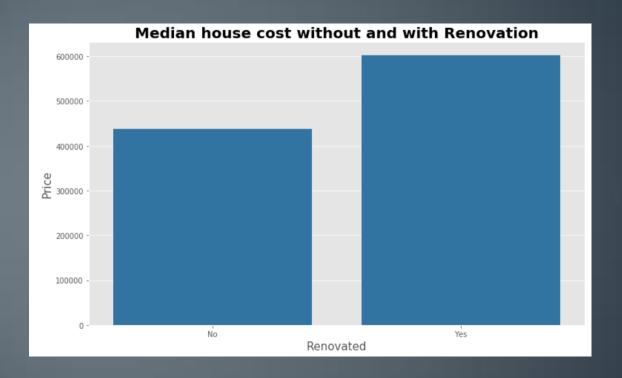
Model Accuracy

• 79%

Features Used in Model

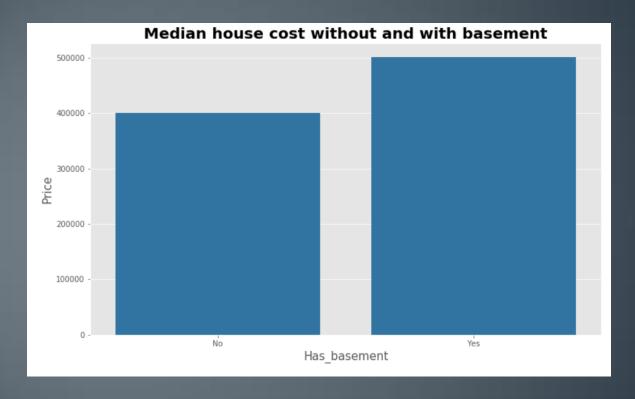
- Whether a house has a basement
- Whether a house was renovated
- The condition a house is in
- The view a house has
- The number of floors
- The grade of the house
- The amount of bedrooms
- The amount of bathrooms
- If the house is in a cheap or expensive zip code
- Sqft of each house
- Sqft of the lot for each house
- The year the house was built in
- Whether a house is on the waterfront

Significant Feature #1- Renovation



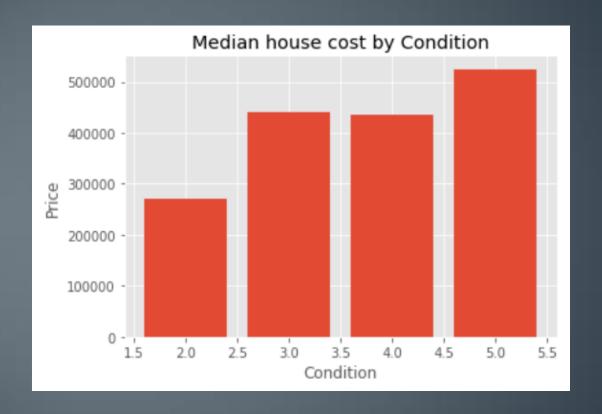
The value of a house rises 37% on average when a renovation is done

Significant Feature #2- Basement



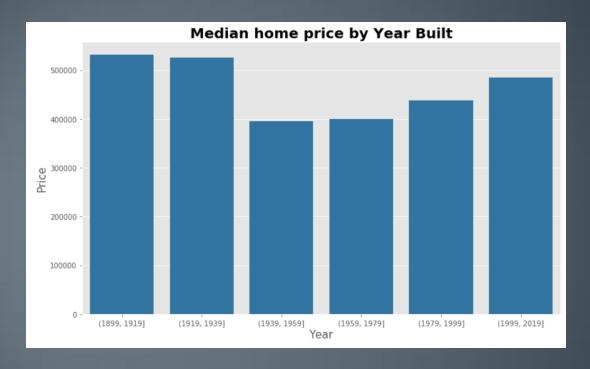
A house with a basement is worth 25% more than a house with no basement on average

Significant Feature #3- Condition



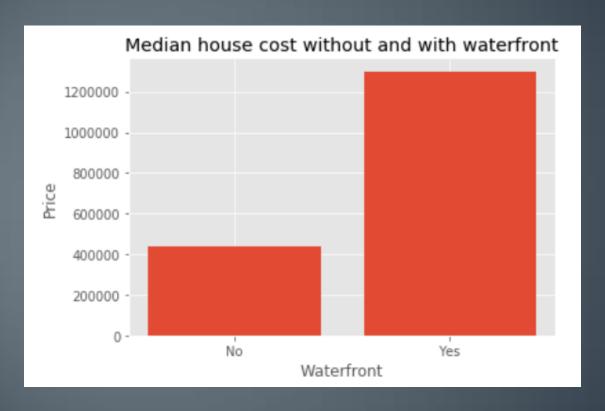
As the condition of a house increases, the price will rise

Significant Feature #4- Year Built



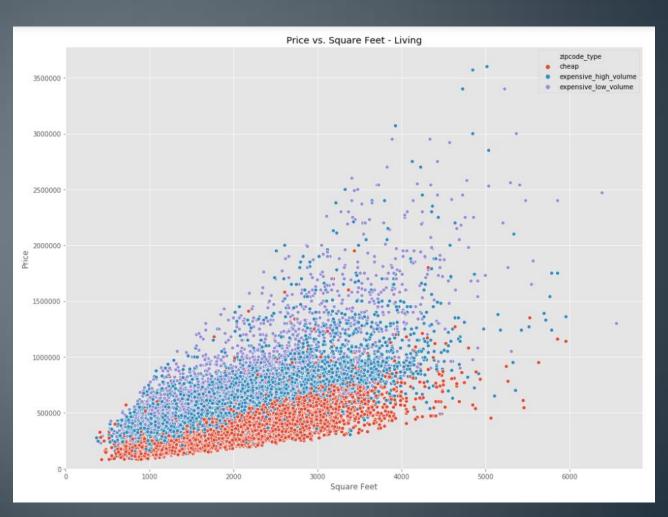
Surprisingly the most expensive houses tend to be the oldest ones. After 1939, the house prices were higher for newer homes

Significant Feature #5- Waterfront



Houses on the water are 196% more expensive than non-waterfront homes on average

Significant Feature #6- Sqft of House



Recommendations

Out of the 6 most significant features from our model, half are able to be changed by someone wanting to increase the value of their home

- Renovating their home
- Increasing the condition of the home
- Increasing the sqft of the home

Future Work

- Add more features such as quality of schools and walkability
- Building a model to predict price based on the inputs of various features
- Possibly have a bigger timeframe for the data

THANK YOU

• Questions?