



Overview

Kraken Construction is looking to develop real estate in King County, WA. Before they break ground, they would like some insight as to what features to include in a new home construction that positively influence sale price, and to what extent.

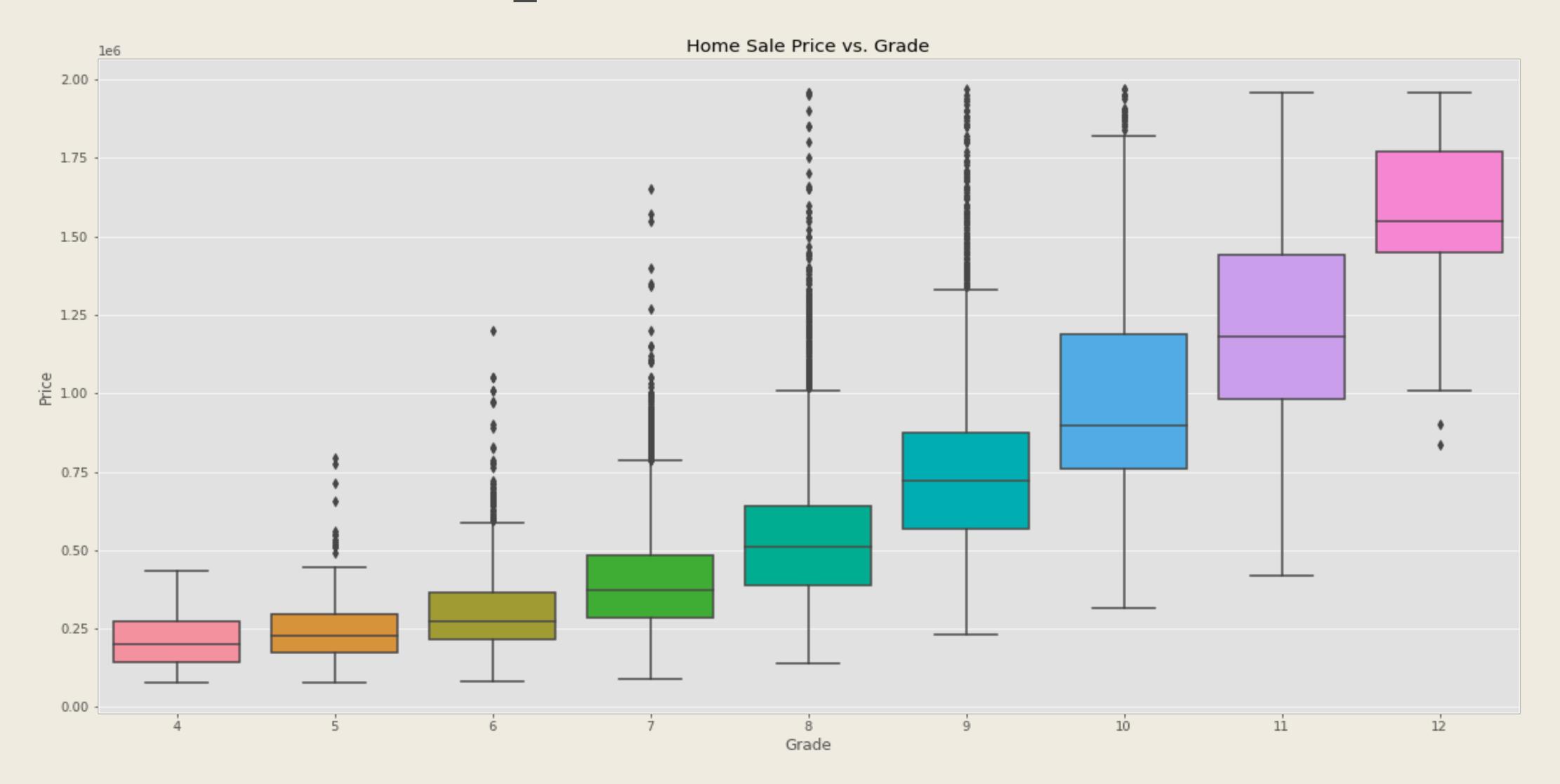
My Job: What features, based on King County home sale prices, should you consider in the construction of a new home?



The Data

- Home sales information in King County, WA
- 2014 to 2015
- 21,597 homes
- 20 features

Feature Exploration



• Building grade and square footage of living space had the strongest positive correlations with home sale price.

Feature Exploration



• Building grade and square footage of living space had the strongest positive correlations with home sale price.

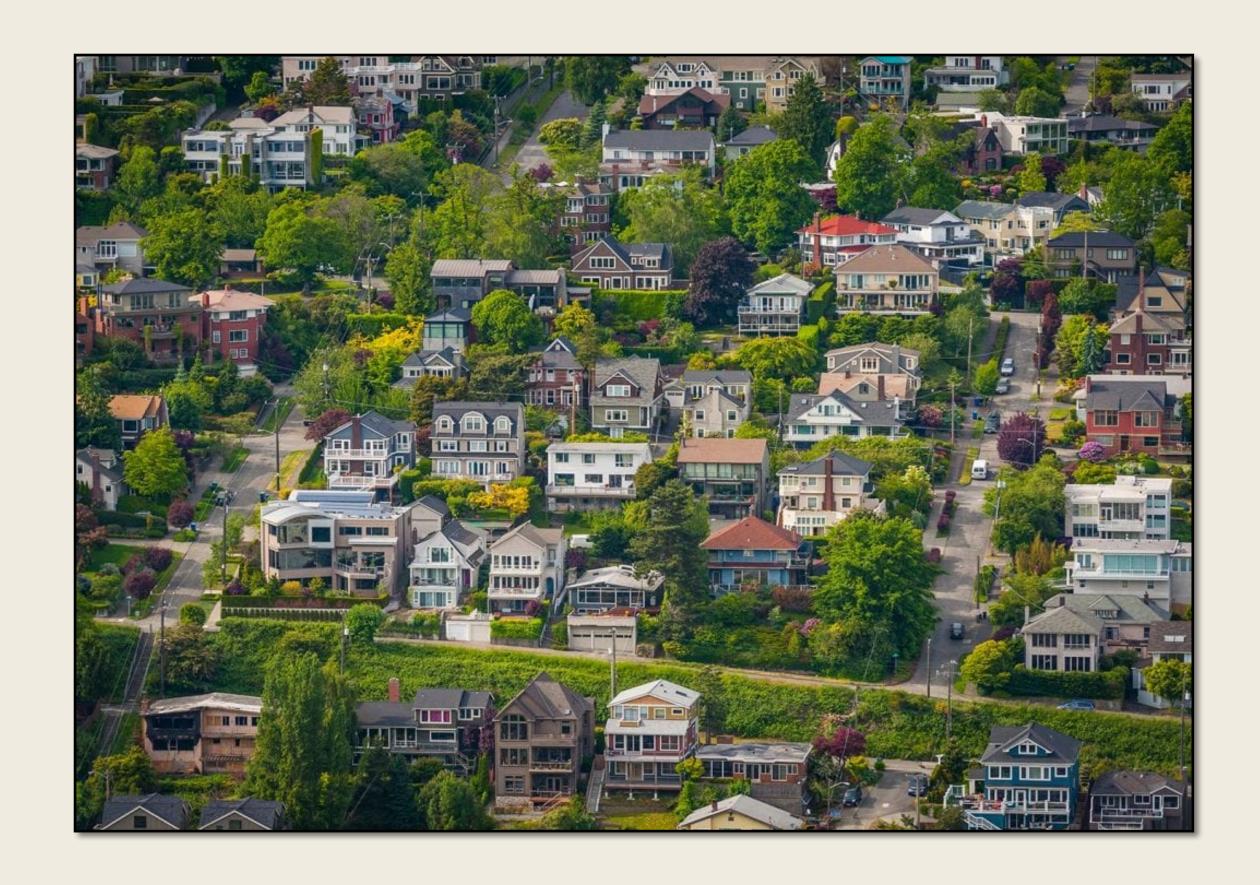
X

Regression

- Allows you to identify which features matter most, which features can be ignored, and how these features influence each other.
- Measures the impact independent variables (features) have on a dependent variable (sale price)
- Widely used practice that helps businesses understand their data and use it to make better decisions

Results

- All of our selected features had a statistically significant linear relationship with home sale price.
- Our model accurately explains 57.4% of the variation in sale price.
- Some observations:
 - With each additional bedroom added you can increase the home sale price by ~\$11,000.
 - With each additional floor added you can increase the home sale price by ~\$32,000



• My recommendations are....

1. Find an area to develop that has at least what is considered a 'fair' view. Homes built on these lots see an increase in home sale price of:

2. Homes with a waterfront see the biggest increase in home sale price compared to most other features. Building a house on a waterfront sees an increase in sale price of:

3. Do not cut costs on building materials, building grade is highly correlated to sale price. Most houses are built with an "average" grade, to increase sale price begin building with a grade of:

9-6Better"

Limitations and Future Analysis

- Our model accurately explains only 57.4 percent of the variation in sale price, conclusions should be approached with caution.
- One assumption for linear regression was not fulfilled in the modeling process.

- Future analysis and modeling might want to consider a couple of items:
 - 1. Find more recent home sales data to get a more accurate picture of today's market. Finding home sale information before 2014 would also help to create a more in-depth analysis.
 - 2. Include additional features in future models.

Thank You

