



there's no place
like a
(new) home.

we've moved!

King County, Washington

House Price Prediction in — King County, Washington.

Pengju Sun
03/22/2021

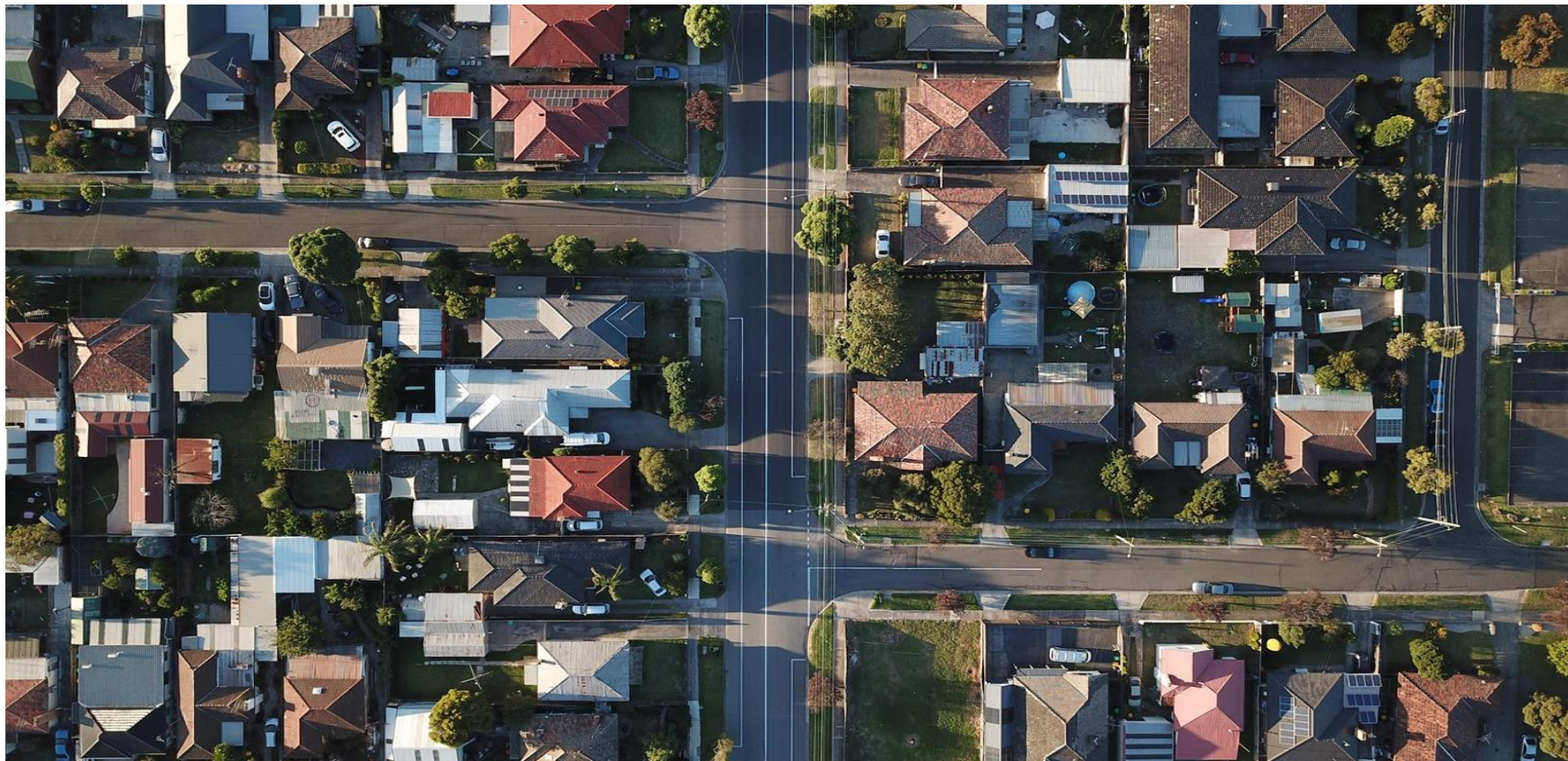
D·R·HORTON®

America's Builder

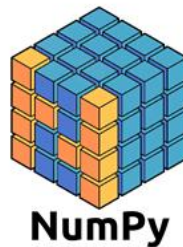
D.R.Horton, as one of the biggest housing development companies in the US, is searching for qualities that lead to higher home sale prices in King County, Washington.



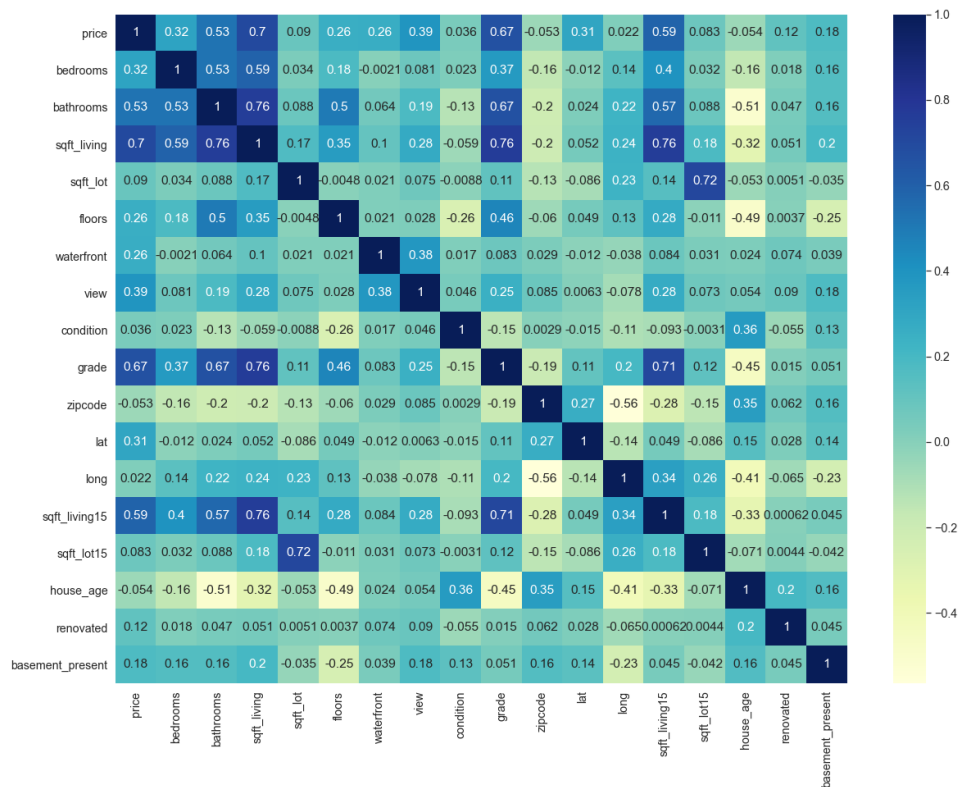
King County House Data



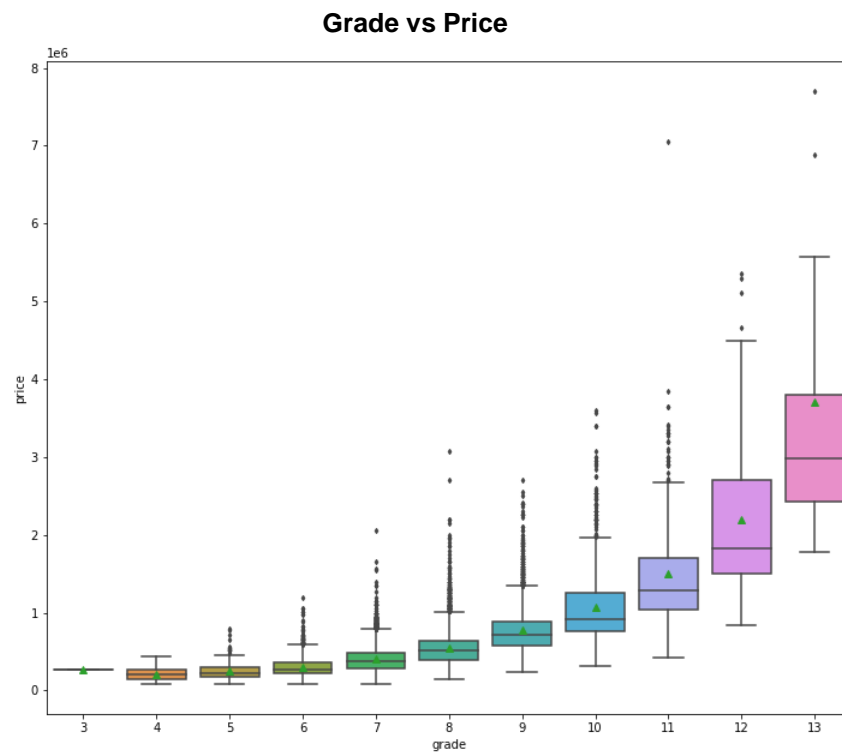
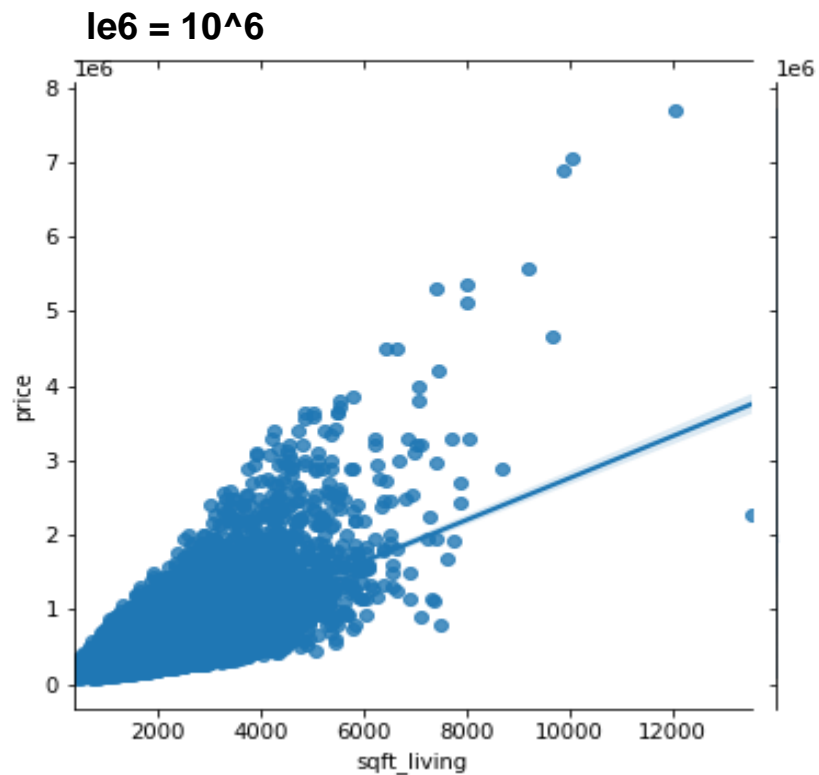
Methods



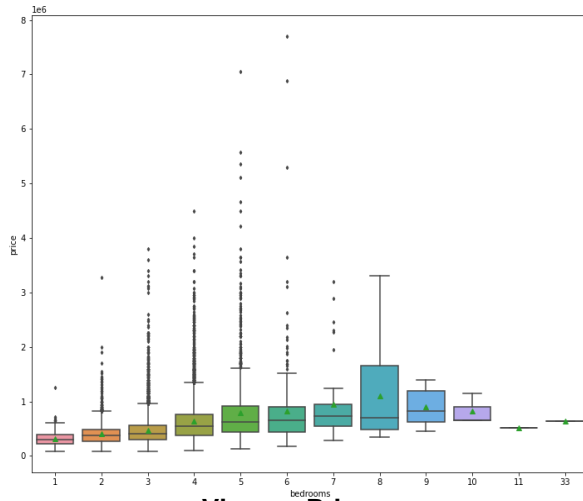
Results



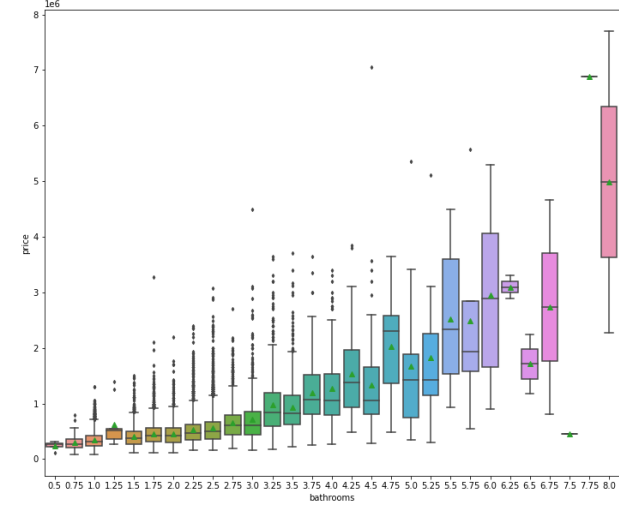
Results



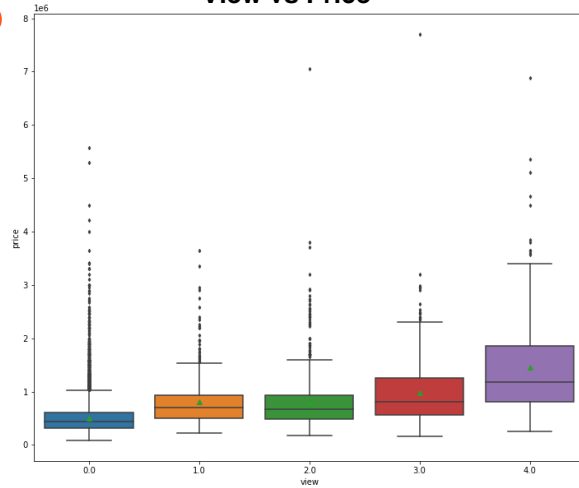
Bedrooms vs Price



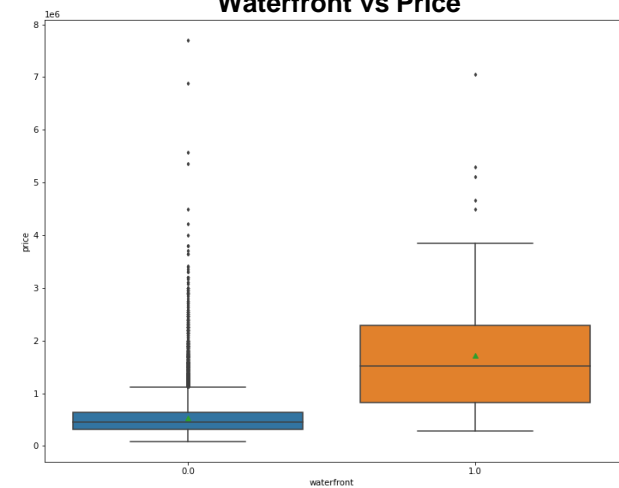
Bathrooms vs Price



View vs Price



Waterfront vs Price



Results

Results

**Multiple Linear Regression
Model:**

**$R^2 = 0.76$
 $MAE = 110K$**

**Polynomial Regression
Model:**

**$R^2 = 0.79$
 $MAE = 100K$**

Recommendation

The recommendations are as follows:

- Increase square-footage of living space.
- Increase the number of bedrooms and bathrooms as the square feet of houses increase.
- Attain the highest possible building grade
- Build and develop homes with waterfront
- Build and develop homes with good view

Future Work

- Reduce noise in the data to improve the accuracy of the models
- Investigate on the location importance of the houses.
- Investigate certain features, such as constructional/architectural values of house, to see what trends we could discern from that.

Thank you!

For any questions or comments, please feel free to reach out!

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