

Predicting King County House Prices Using Linear Regression

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Project Approach

King County housing dataset includes home sale prices from May 2014 – May 2015

Includes other features:

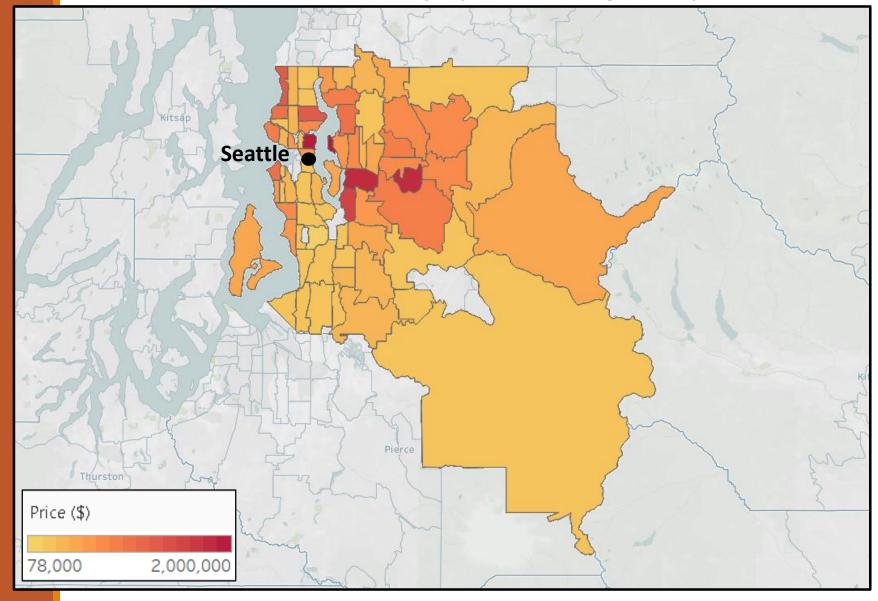
- Location zip code, latitude and longitude
- Size ft² ... above ground, basement, living area
- Size of neighborhood homes
- Number of floors, bedrooms, bathrooms
- Condition, grade
- Year built, year renovated
- Setting waterfront, view

Objective: Produce linear regression model to predict sale price using most critical features

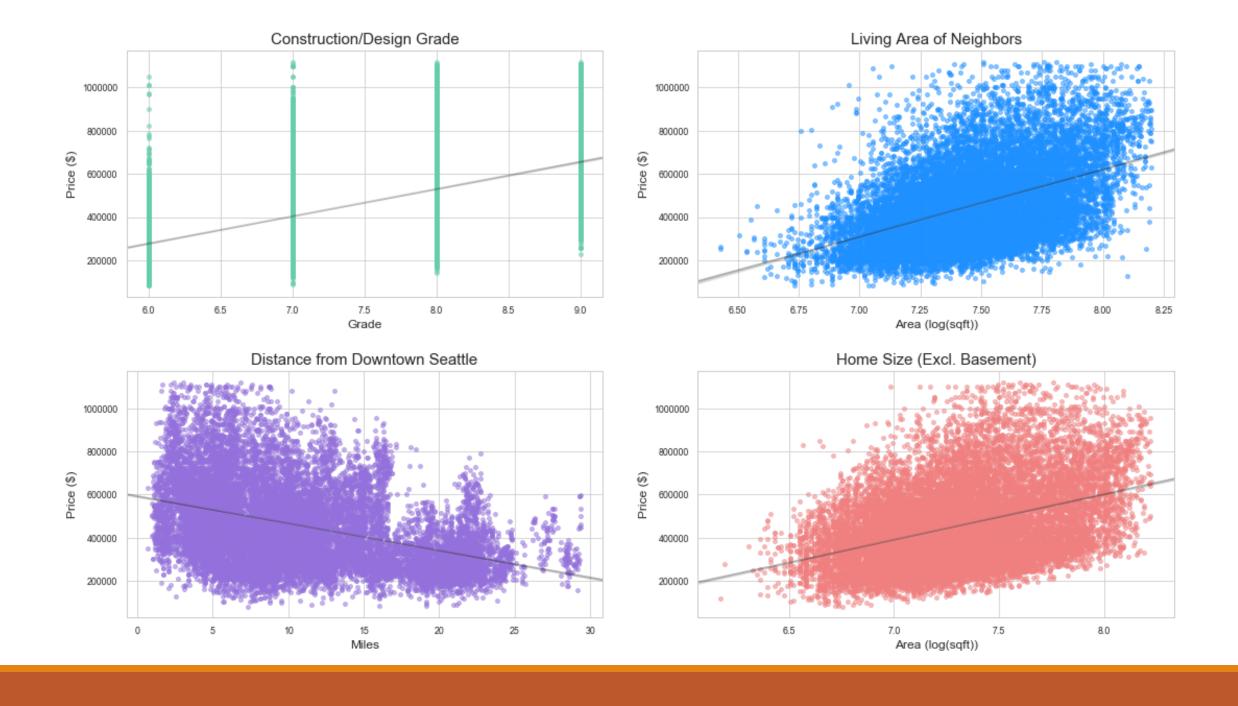
Results

- Five most important features for predicting sale price:
- Zip code
- Construction/Design Grade
- Neighborhood Home Living Area
- Distance from Seattle
- Home Size (excluding basement)
- Model explains 77% of the overall variability in King County house prices

Median Sale Price by Zip Code in King County



Sale Price by Zip Code Price (\$)



How to maximize profits when selling your home?

Consider an addition to increase the square footage of your home

Encourage your neighbors to do the same!



Stick to quality construction and design for home building and renovations



For current homeowners, location factors are largely out of your control

