King County Home Remodeling: How to Receive the Best Value for a Home



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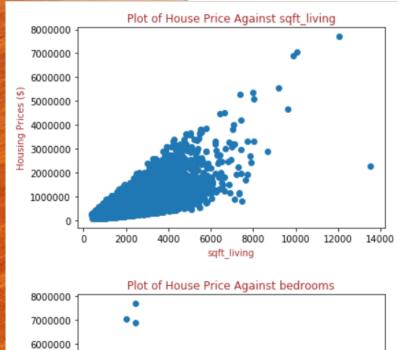
Overview/Business Problem

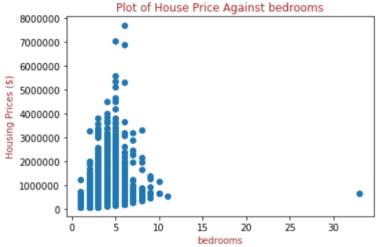
Every year homes are bought and sold in the King County area of Washington State. I am acting with a real estate agency in King County to help homeowners improve their homes to put out on the market. I plan to come up with ideas for homeowners to renovate their homes to increase the worth of their homes to sell them for the highest monetary value possible.

Data

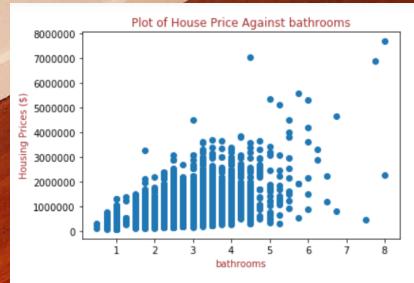
- This project uses the King County House Sales dataset. The dataset covers house sale prices between May 2014 and May 2015 in King County of Washington state.
- I decided what data from this dataset to use and how to use it.

Data Preparation





-Created plots of house prices against features; analyzed outlier data





Data Modeling

· Model 1:

- R2: 51%

- RMSE: \$258699.74

- Linear Coefficients:



Square footage: 283128.64

Bedrooms: -55432.12

Bathrooms: 8187.88

Floors: 529.48

Data Modeling Continued

· Model 2:

- R2: 42%

- RMSE: \$169711.26

- Linear Coefficients:



Square footage: 154055.43

Bedrooms: -25333.13

Bathrooms: -107.36

Floors: 13827.04

Conclusions

Create homes with more square footage but not necessarily bedrooms

 Allow more variance in the number of bathrooms and number of floors

Recommendations for Further Analysis

 Find a positive correlation with home sale price and bedrooms

 Include more specified square footage columns from the original King County House Sales dataset in future models

View locations of homes for sale

Contact Information

- Email: jmstipanowich@gmail.com
- Github link: https://github.com/jmstipanowich/KingCountyHousingRepo
- Picture Sources:

https://www.seattlemet.com/home-and-real-estate/seattle-suburbs-king-county-puget-sound

https://www.homes.com/king-county-wa/homes-for-sale/

https://www.zillow.com/king-county-wa/houses/

Thank you!!