

King County Home Remodeling

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Outline

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Overview/Business Problem

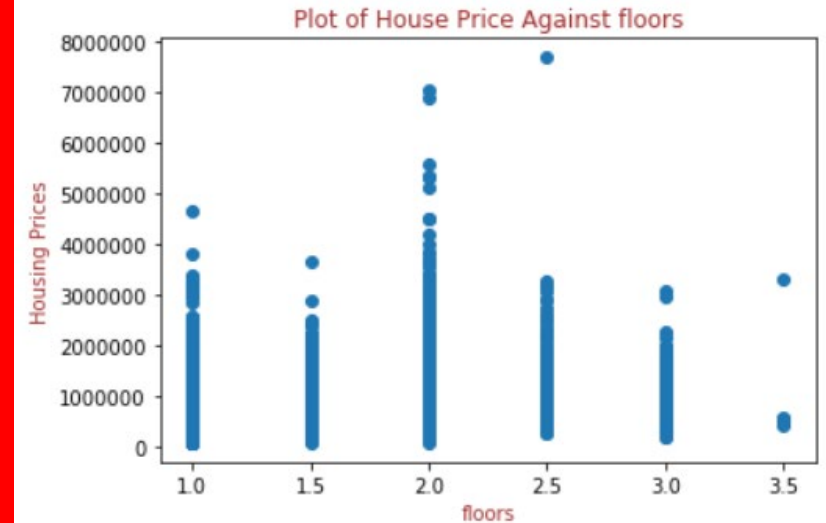
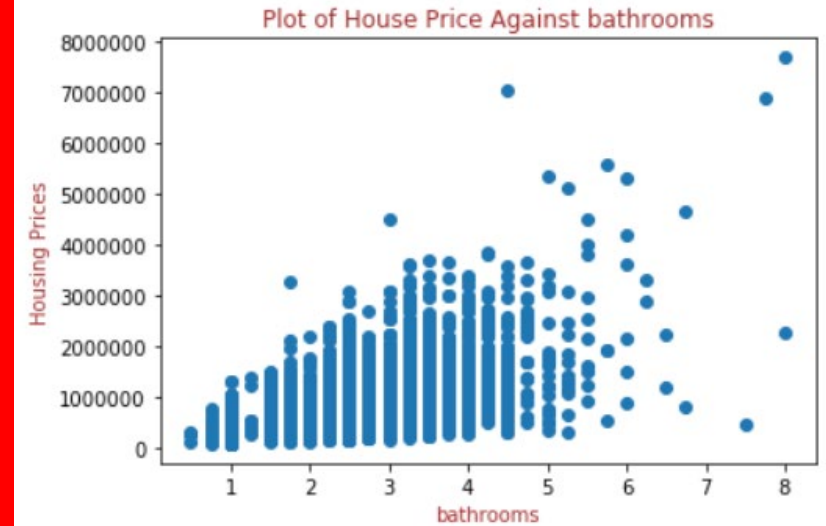
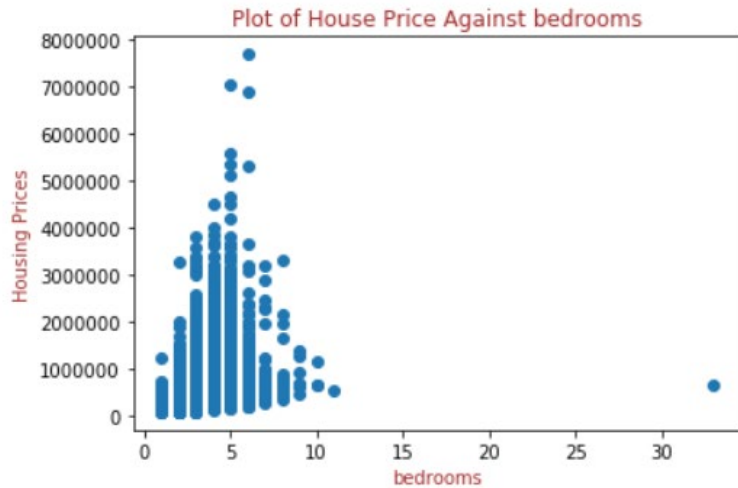
Every year homes are bought and sold in the King County area of Washington State. I am acting with a real estate agency in King County to help homeowners improve their homes to put out on the market. I plan to come up with ideas for homeowners to renovate their homes to increase the worth of their homes 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 Intercept: 541284.46
- 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 Intercept: 486201.73
- 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
- Expect an average home price value of \$541284 or \$486201

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

Contact Information

- Email: jmstipanowich@gmail.com
- Github link: <https://github.com/jmstipanowich/KingCountyHousingRepo>
- Picture Sources:
<https://www.racialequityalliance.org/jurisdictions/king-county-washington/>
<https://www.homes.com/king-county-wa/homes-for-sale/>
<https://www.zillow.com/king-county-wa/houses/>

Thank you!!