Home Improvement Analysis

For King County, WA

Business Problem

Provide insight on what home improvement projects add value to a home.

Outline

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- Business Problem
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Summary

Descriptive analysis of which home improvement projects increase the value of the home.

Methods

Linear regression models to attempt to predict how much home improvement projects increase the value of a home.

I used total square feet of living space, building grade, how many bedrooms and how many full bathrooms a house has.

Results

For every building grade value increases by $3200. For every added bedroom value increases by $3400. And for every added full bathroom the value increases by $3000.

I ended with being able to predict 44% of the variation, with violating the normality assumption due to the probability of the JB value is tiny. The homoscedasticity assumption was violated as well due to the check returning a value of 0. The model does not violate the linearity assumption and has very little multicollinearity.

Conclusions

Although it is possible to predict with this model, it will be a rather crude prediction.

I suggest going through the data more to see if there is any way to more accurately predict what home improvement projects increase the value of a home the most.

Thank You!

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