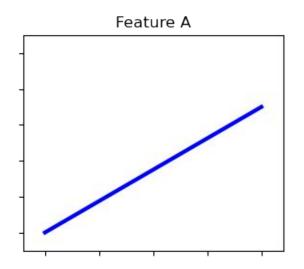
King County Real Estate A Look into Home Improvements

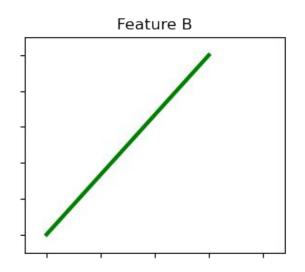
Outline

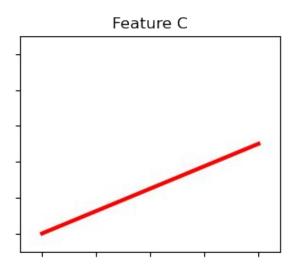
- Introduction to Business Problem
- Dataset
- Method
- Model
- Conclusion
- Future Improvements

Business Problem

- Many features to take into consideration
- Efficient investments equal greater rewards

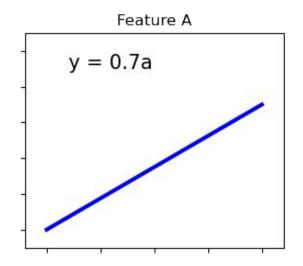


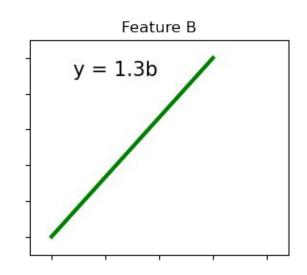


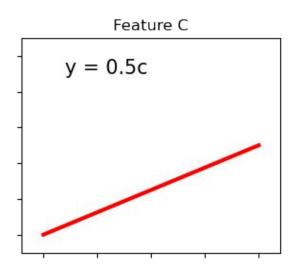


Goals

- Find the best features
- Supply quantitative measures.







Dataset

- King County Home Sales Data
- Years: 2014-2015
- 70 Zipcodes
- 21,500 entries
- Prices:
 - Mean: \$538,000
 - Span: \$78,000 \$4,000,000
- Features:
 - Location
 - Quality
 - Size

Linear Regression Model

- Simple and Understandable
- Coefficients with direct correlation to target

Features

- Modifiable features
 - Home size
 - Rooms
 - Quality

Method

Model

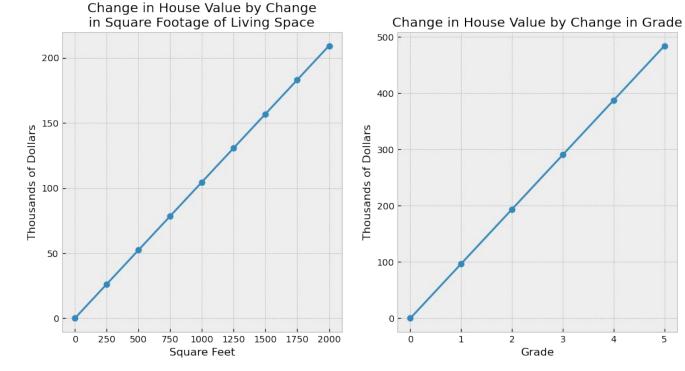
Three Features:

- Square Footage of living space
- Grade Overall construction and design
- Condition Overall maintenance condition

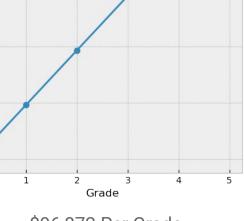
Performance

- Only Viable for homes under \$1,500,000
- Root Mean Squared Percent Error: %41

Model - Top Features



\$104.63 Per Square Foot

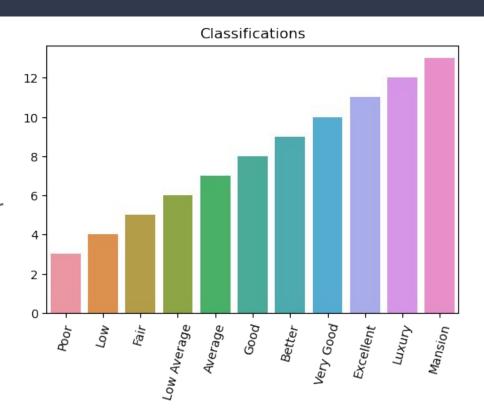


\$96,872 Per Grade

Model - Grade

Grade - Overall construction and design

Classification - Scale from 3 to 13 or Poor to Mansion



Square Footage of Living Space:

- \$104.63 Per added Square Foot

Grade:

- \$96,872 Per Increase in grade



Conclusion

Future Improvements

- Include More Features
- Try more complicated feature transformations
- Acquire more features
 - Ex. Square Footage of Bedroom

The End.

Any Questions?

Contact Information

Name: Carl Schneck

Linkedin: carl-schneck-053183a5