

---

# Analyzing Kings County Home Prices

Justin Balwan  
June 12th, 2022

---

# *Outline*

- Overview
- Business Problem
- The Data
- Modeling & Regression Results
- Conclusion & Next Steps

---

---

# *Overview*

Linear regression techniques were used to import, manipulate, and model data from Kings County, Washington, in order to predict home sale prices based on chosen criteria.



---

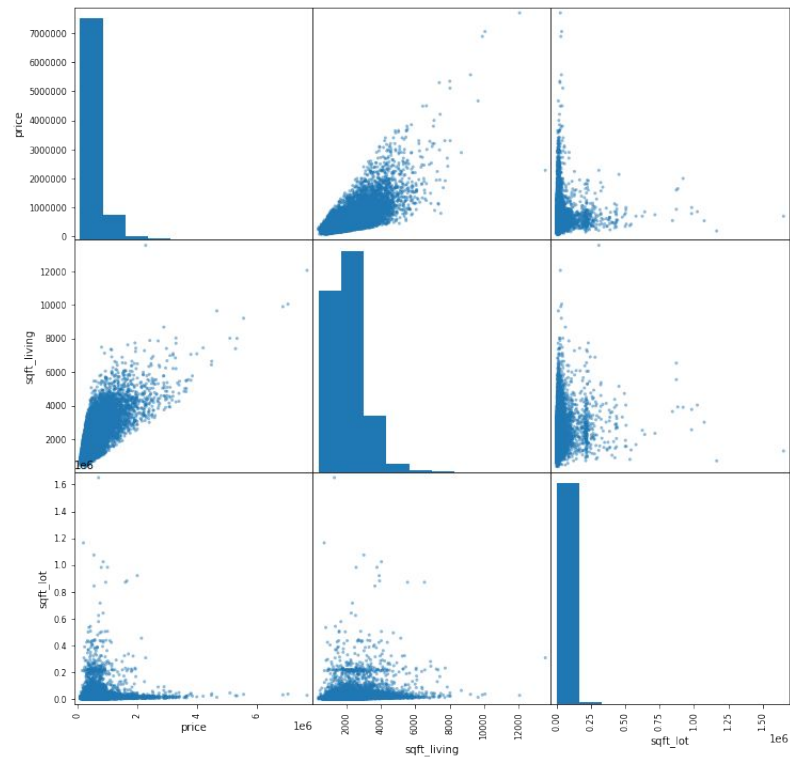
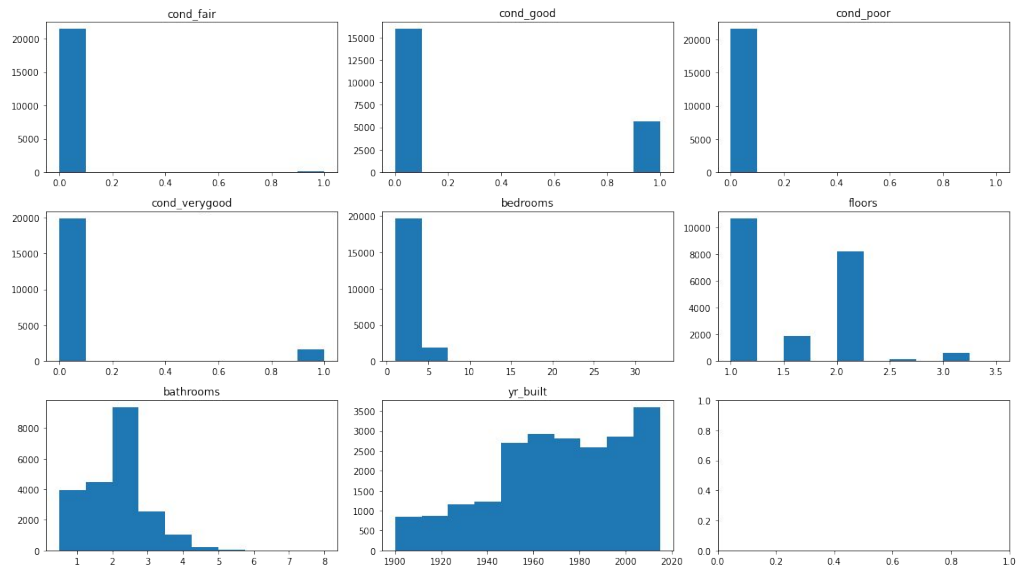
# *Business Problem*

- Employee for real estate agency
- Analyze Kings County home sale prices
- Provide lucrative home price predictors



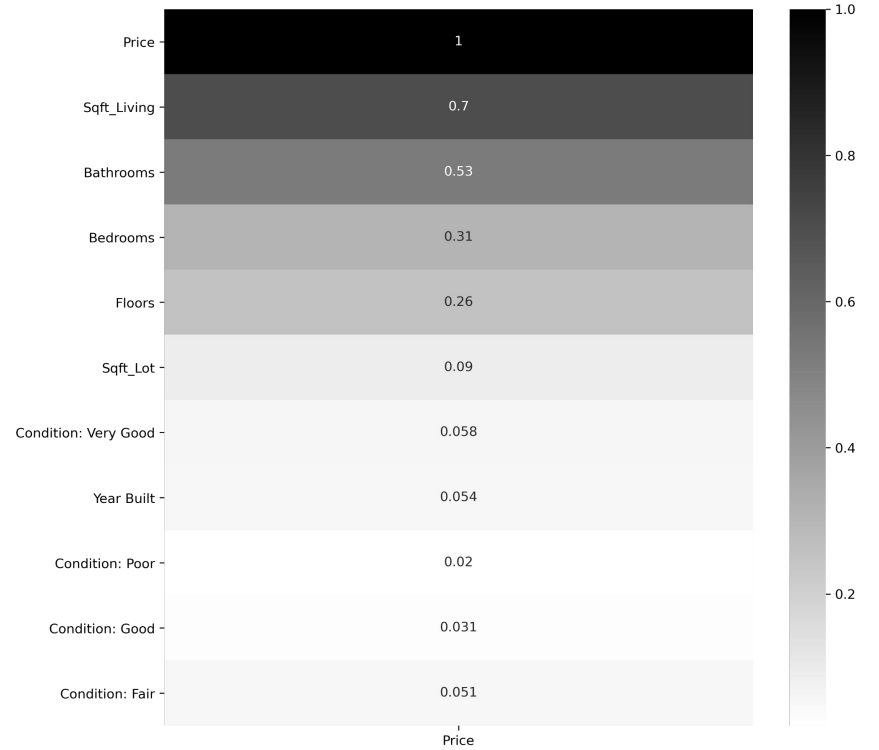
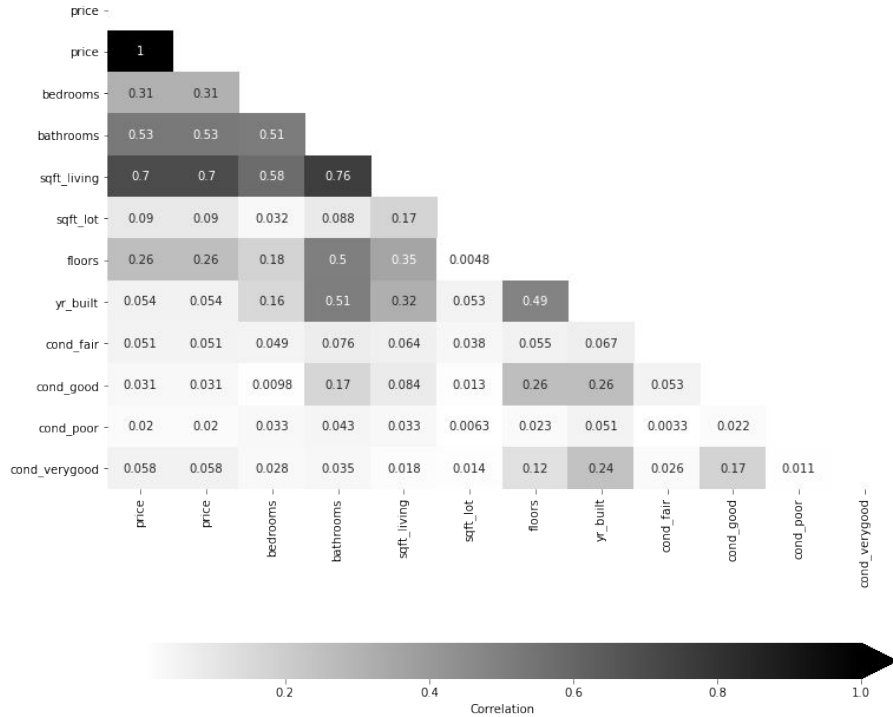
# The Data

## *Categorical vs. Continuous*



# The Data: Continued

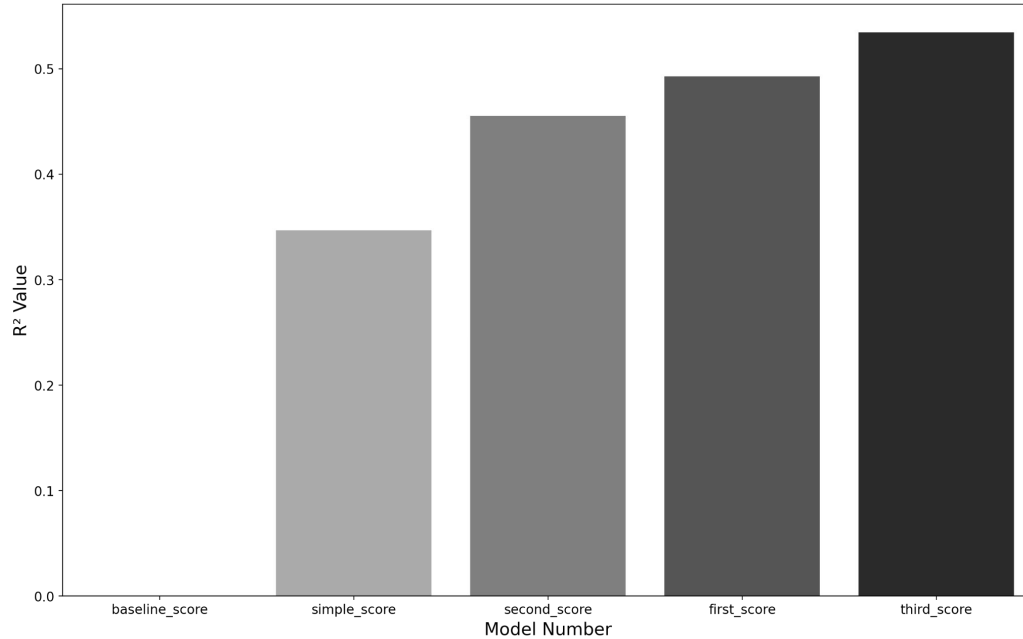
Heatmap of Correlation Between Home Renovation Factors (Including Target aka Price)



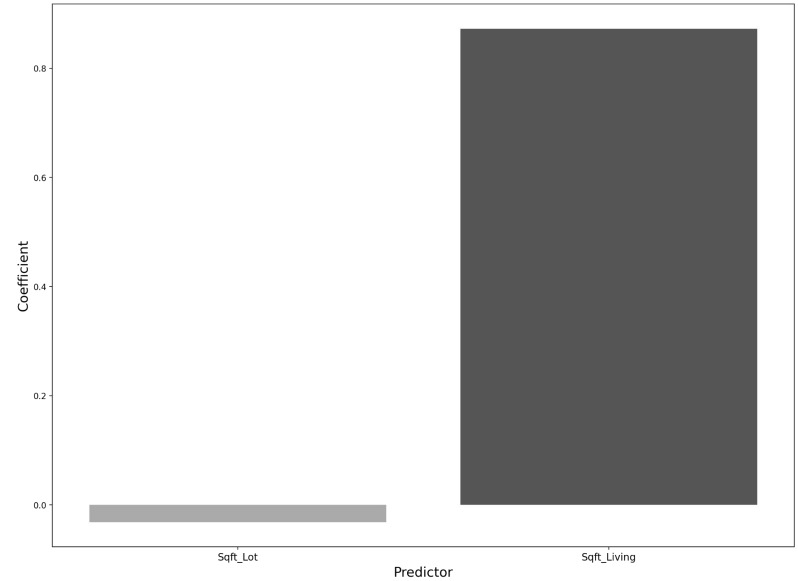
---

# ***Modeling & Regression Results***

Models with their  $R^2$  Values



House Price Predictors

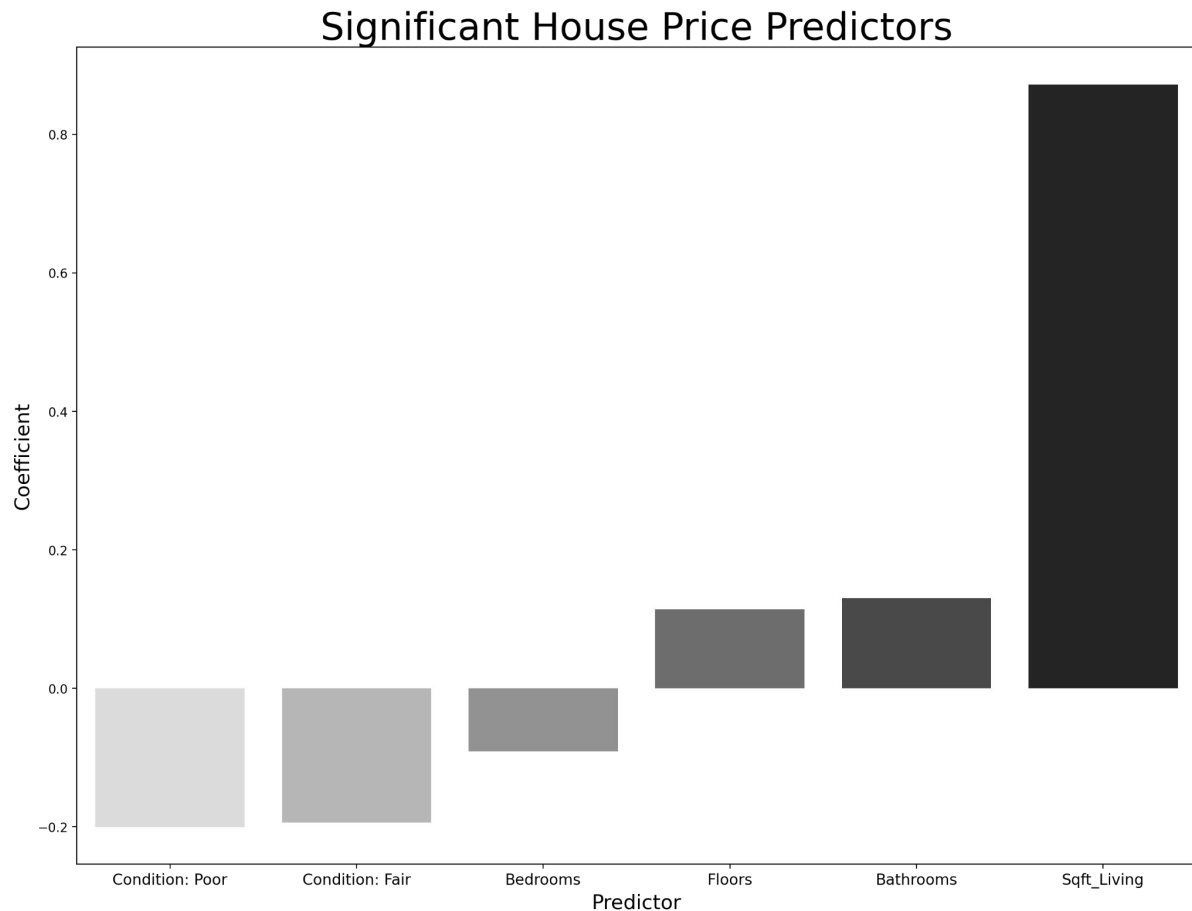


## ***Recommendations***

1. Conduct home renovations that increase a home's **square foot of living**; by far the **most lucrative home price predictor**

2. Focus on home renovations that include **increasing the number of bathrooms, floors, and square foot of living**; will ultimately increase a home's value

3. **Do not renovate** homes that are in **poor conditions**





# *Conclusion*

## *& Next Steps*

- Most lucrative price predictor
- Investigate multicollinearity
- Include more price predictors

---