# King County Housing Data Analysis

#### Introduction

This project focuses on providing insight for a prospective homebuyer looking to purchase a home in King County, Washington.

The buyer intends to live in the home for 3-5 years and then sell, ideally for a profit.

The buyer also has a budget for renovation.

### **Business Problem**

This analysis aims to answer the following questions:

- What is the impact of living in a particular section of King County versus other sections.
- What is the correlation between a house's square footage of living space and it's selling price?
- Where is

#### Libraries











#### Data

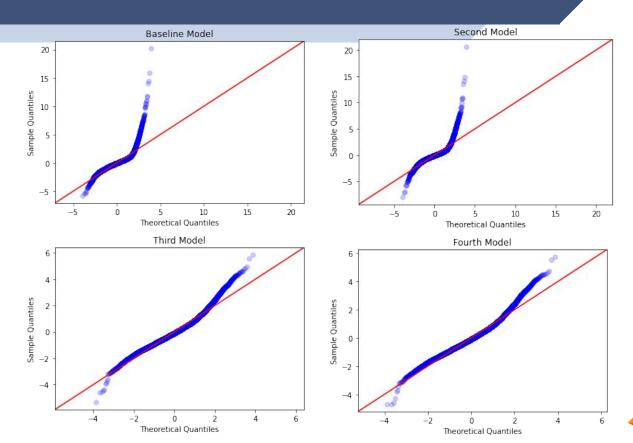
- Analysis focuses on the King County Housing dataset provide by Kaggle.com
- Data included 21,597 records of homes sold in 2014 and 2015
- Entries contained information such as selling price, square feet of living space, number of bedrooms, etc.

## **Methods**

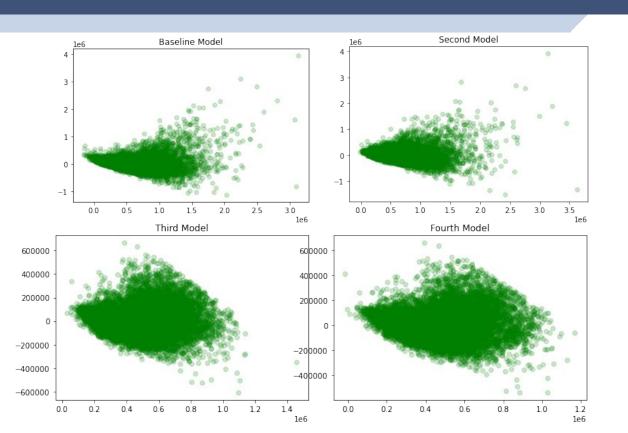
- Cleaned dataset
- 2. Create dummies for all categorical variables
- 3. Remove continuous variables' outliers
- 4. Log-transform and scale continuous variables



# **Normality**



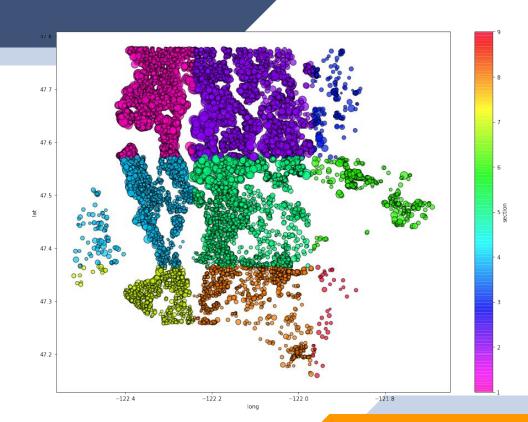
# Homoscedasticity



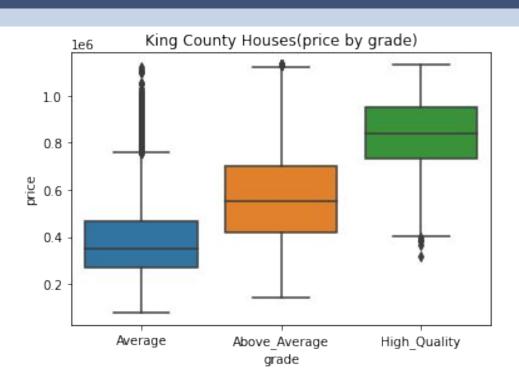
### **Conclusions**

Model 4 advises purchasing homes in sections 1(pink) and 2(purple)

Homes North of 47.57 Lat. and West of -121.97 Long.



# **Conclusions**



Renovations should be made using highest quality contractors and materials

# Conclusions

	coefficient
sqft_living	676146.942065
Grade_High_Quality	253667.108839
View_4	218207.762842
Intercept	166583.865718
Condition_5	161292.797051
Condition_4	133805.608255
View_3	108943.847766
Condition_3	105616.408877
Grade_Above_Average	96526.407549
View_1	93599.373751

# **Future Analysis**

- Incorporate other datasets that contain information schools, services, etc.
- ➤ Learn and employ geospatial libraries





# Thank you for reading

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