King County Housing Data Analysis

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Summary

Regression analysis for the King County Housing Dataset to inform a the housing agent on the determinants of house prices.

Outline

- Business Problem
- Data & Methods
- Results
- Conclusions

Business Problem

- Determine the features that determine the house prices in the real estate market.
- Recommend which features the agency should focus on to fetch better prices for the house units.
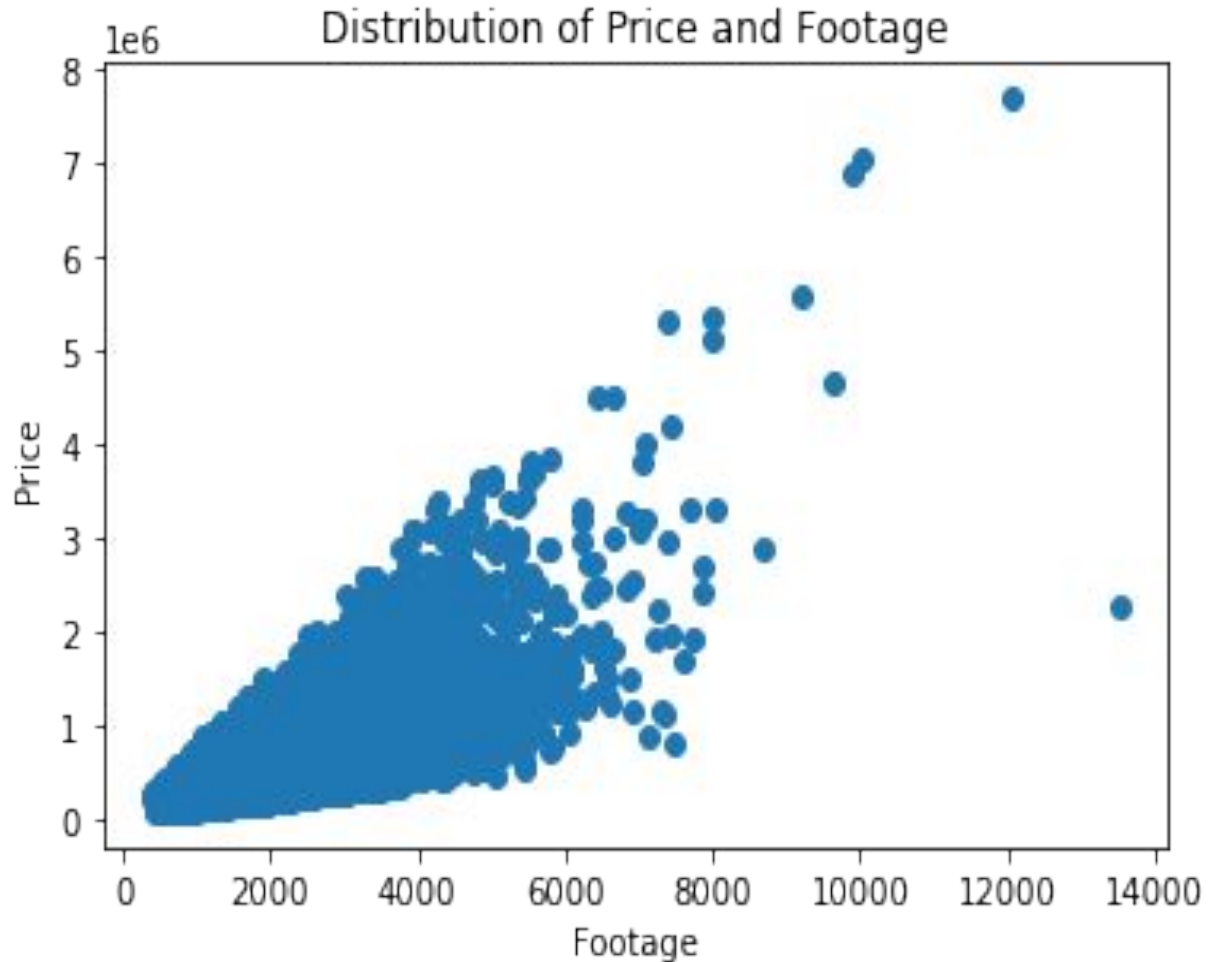
Data and Methods

The analysis used housing data from King County housing database between the year 1900 to 2020.

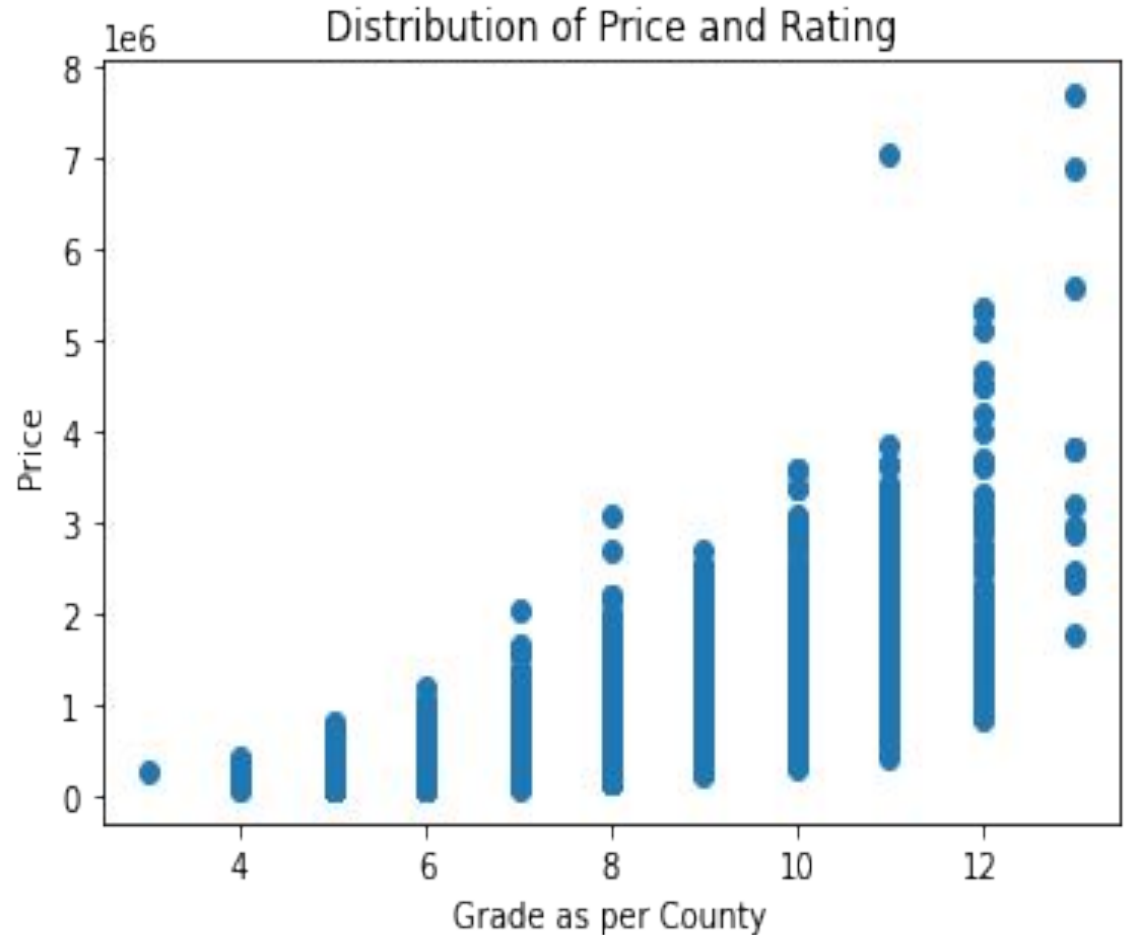Regression analysis was performed on the data to draw conclusions.

Results

The analysis shows that a unit increase in the footage of the living space increases the house price by 0.4 units.
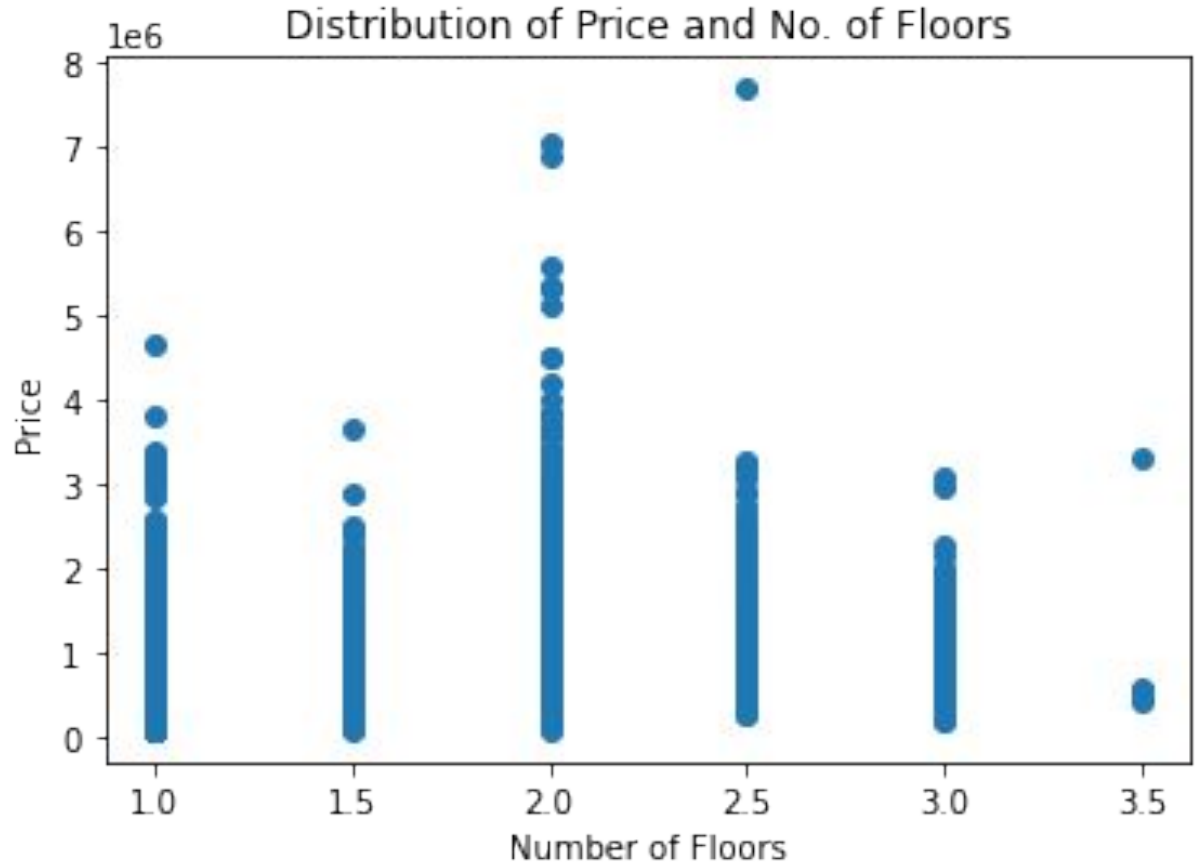

Distribution of Price and Footage

Results

The analysis also shows that a unit increase in the grade given by the King County increases the price of the house unit by 0.5 unit.
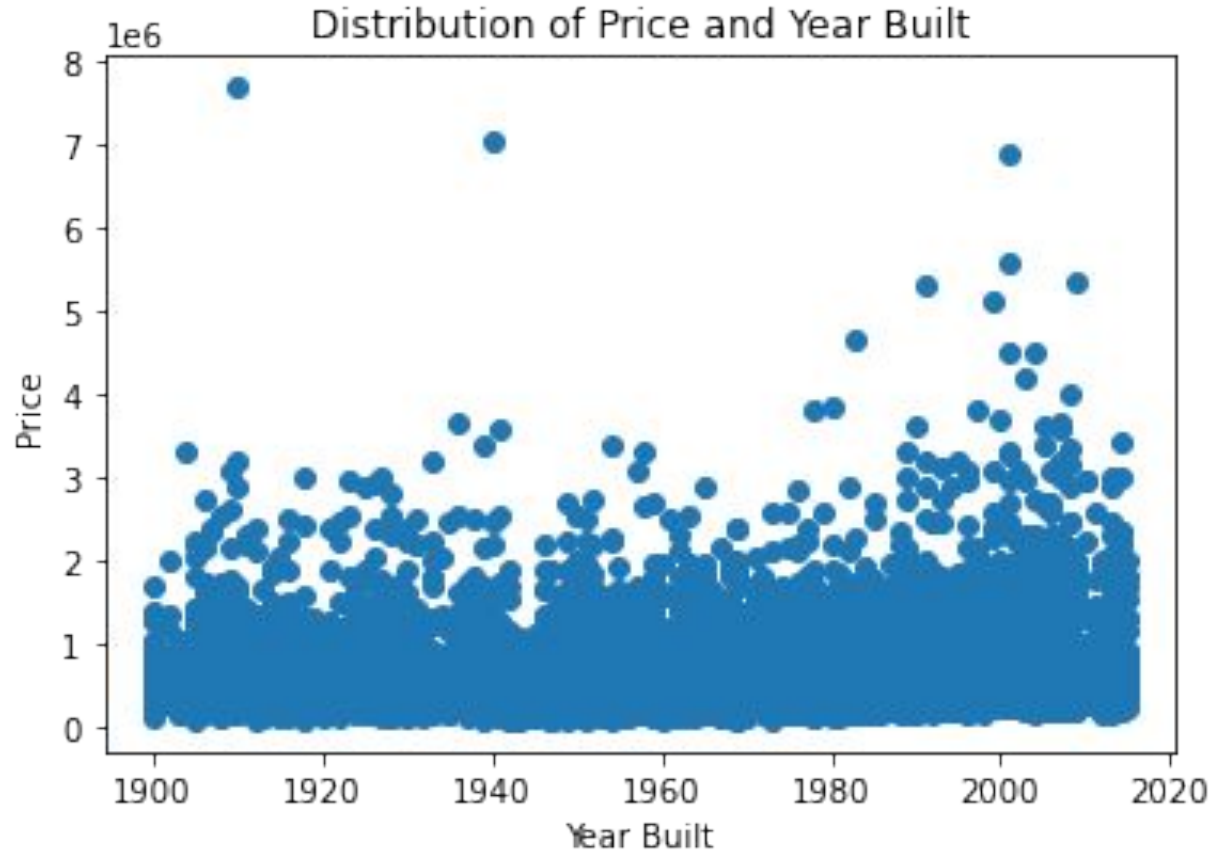

Distribution of Price and Rating

Results

The prices of houses increases with increase from first to second floor but decrease after the 2.5th floor.

Distribution of Price and No. of Floors

Results

As the age of a house increases by one year, the price decreases by 0.15.

Distribution of Price and Year Built

Conclusions and Recommendations

- The housing agency should focus on housing units with high living footage which fetch higher prices in the market.
- The agency should also focus on units with high rating from King County.

Thank You!

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