Welcome

Analyzing King County's Real Estate:

Using Multiple Regression Models to Generate Insights for REIT investors

Silicon Sound InvestmentsInnovative investments for a sound future

Promising Investments

Identify the most promising real estate investment opportunities.

Provide data-driven insights.

Ensure that our analysis is accurate and reliable.

Drive development and growth.

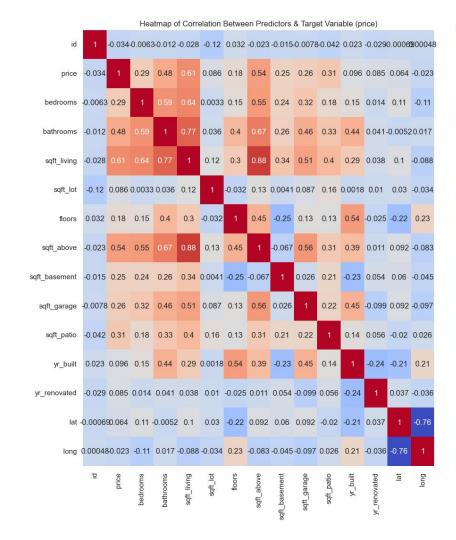
The Data

King County's Assessor's Database

- The dataset contains 30,155 observations with 25 features.
- There are no missing values for the 'price', 'bedrooms', 'bathrooms', 'sqft_living', 'sqft_lot', 'floors', 'sqft_above', 'sqft_basement', 'sqft_garage', 'sqft_patio', 'yr_built', 'yr_renovated', 'address', 'lat', and 'long' features. However, 'heat_source' and 'sewer_system' features have 32 and 14 missing values respectively.
- The mean sale price of houses in the dataset is around 1.1 million dollars, with a standard deviation of around 900k.
- The mean number of bedrooms is around 3.4, with a minimum of 0 and a maximum of 13.
- The mean number of bathrooms is around 2.3, with a minimum of 0 and a maximum of 10.5.
- The mean square footage of living space in the homes is around 2112, with a standard deviation of around 974.
- The mean lot size is around 16,723, with a standard deviation of around 60,382.
- The median year of sale is 2015.
- The mean house age is 48.1 years, with a standard deviation of 32.1 years.

Top Predictors

- Square footage of living space in the home
- Overall grade of the house. Related to the construction and design of the house.
- Square footage of house apart from basement
- Number of bathrooms
- Quality of view from house



- 08

- 0.6

-0.4

- 0.2

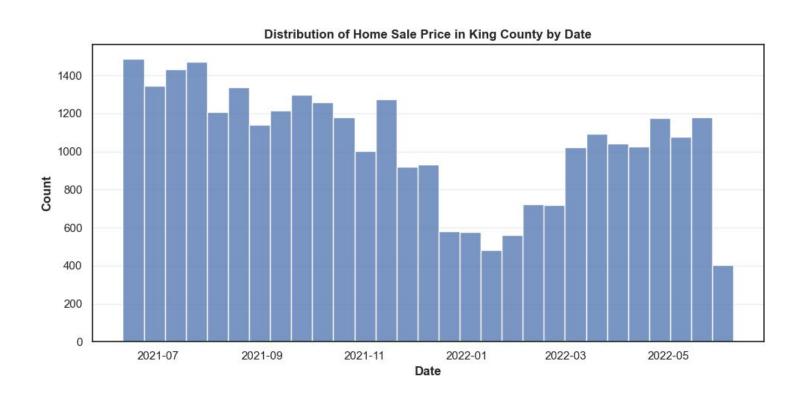
- 00

- -0.2

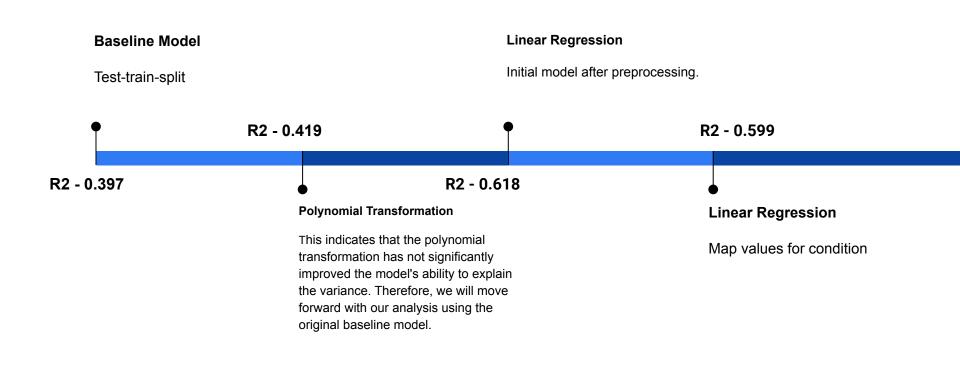
- -0.4

- -0.6

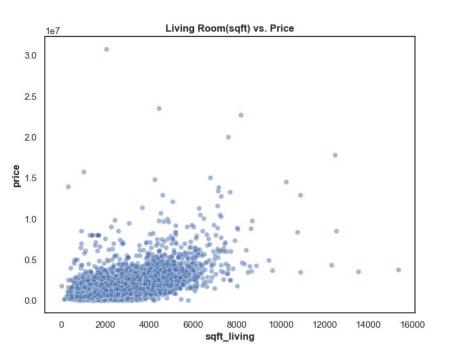
Time

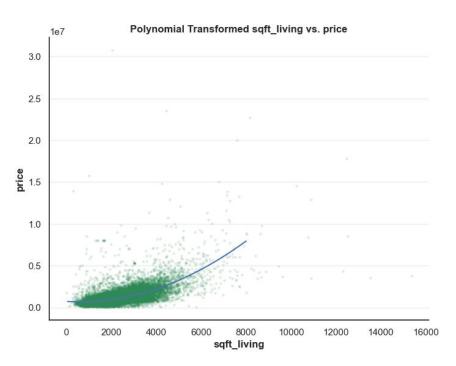


Models

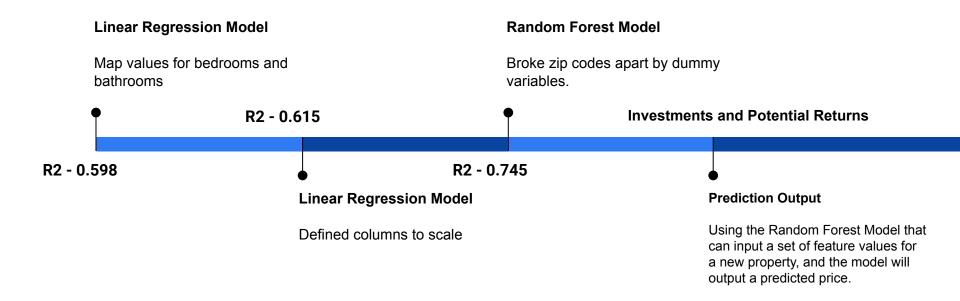


Visualization

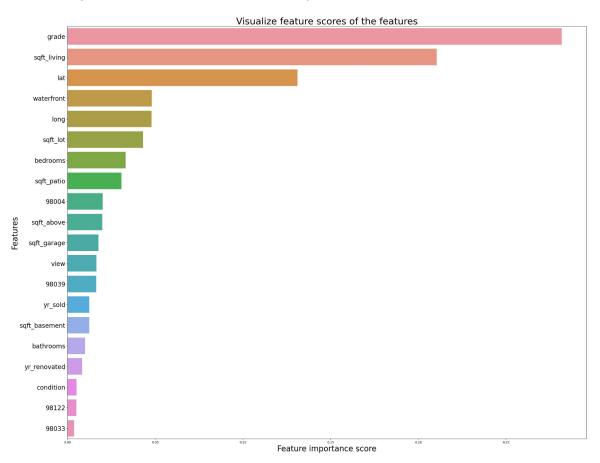




Models



Top Predictors(Random Forest)



Advance

- Investments and Potential Returns Prediction Output
 - Using Random Forest Model we can input a set of feature values for a new property that will output the predicted price.
- Final step: follow up and iterate
 - Housing market is constantly changing so it is important to periodically update the model with new data
 - Home rentals
 - School districts
 - Workers & home zip code

Reach Out

Tracy Strickel

E-Mail: tracystrickel@gmail.com

Linkedin: /tracy-strickel-562408139/

GitHub: /hypermoderndragon/

Medium: @tracystrickel

Jennifer Casias

E-Mail: casiasjc@gmail.com

LinkedIn: /jennifercasias/

GitHub: /casiasjc

Medium: @casiasjc

Thank you. Let's stay connected!