

OBJECTIVE:

CREATE A PREDICTIVE MODEL FOR HOME PRICES IN KING COUNTY, WA

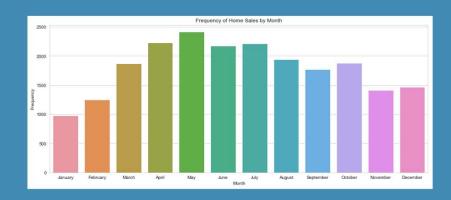
Original Data contained over 21,000 home sale records with 20 categories of home details including:

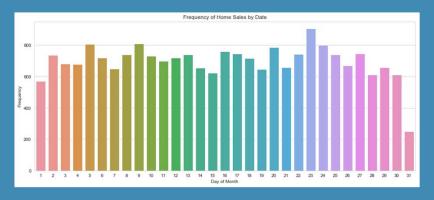
- Square Footage of Home and Lot
- Number of Bedrooms and Baths
- Waterfront Location
- Latitude/Longitude and Zipcode
- King County Grade and Condition
- Year Built and Renovated (if applicable)

CLEANING THE DATA

- Removed placeholder values (?) and null values
- Removed outlier values
- Binned categorical (non-numeric) data into groups to identify potential relationships
- Scaled data to capture full magnitude of changes

The revised, clean data set has 19,468 home records and 15 predictor variables to estimate the target (price).



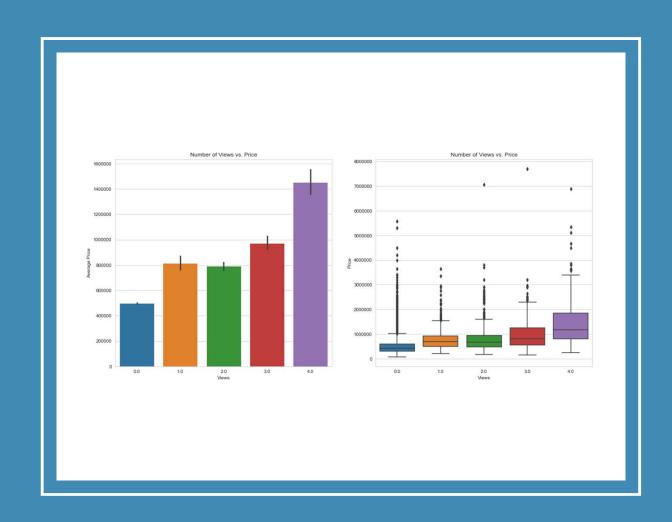


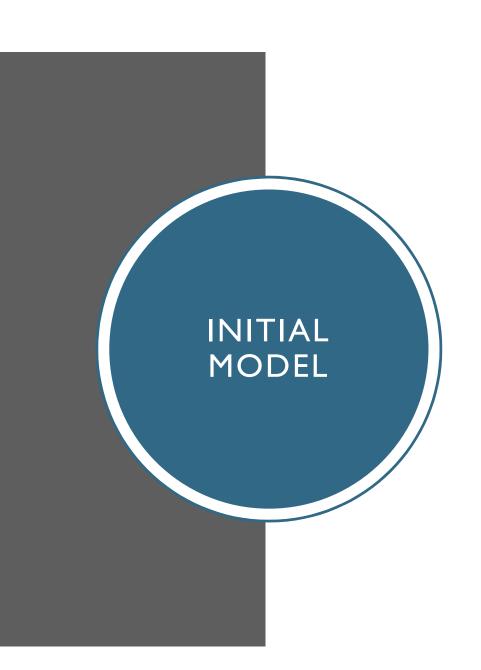
BEST TIME TO SELL A HOUSE

- 23rd day of the month saw the most frequent home sales
- May is the most popular month to sell

MORE VIEWS = HIGHER SALE PRICE

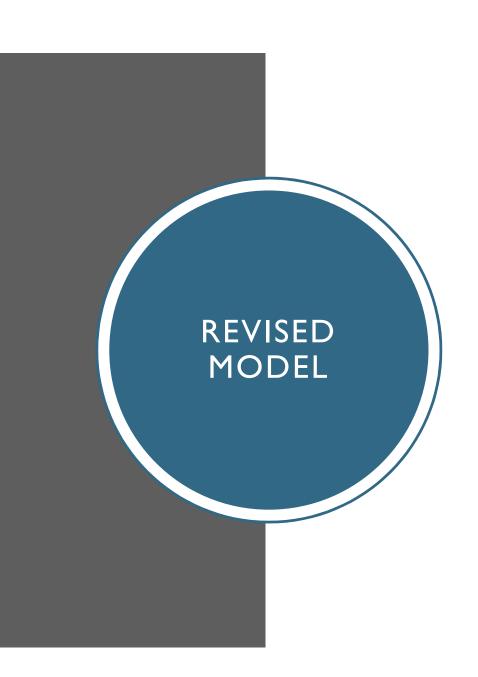
Visibility matters!





- R-Squared: 0.88
 - Ranges from 0.0 1.0
 - Closer to I.0 means better fit
- Accuracy: -9.42
 - Should be between 0.0 and 1.0

Good estimations, but inconsistent across full dataset.



 Eliminated less significant features to reflect price more accurately

• R-Squared: 0.88

Accuracy: 0.87

MOST INFLUENTIAL FACTORS





SQUARE FOOTAGE LOCATION (ZIP CODE)