

### Kings County Housing

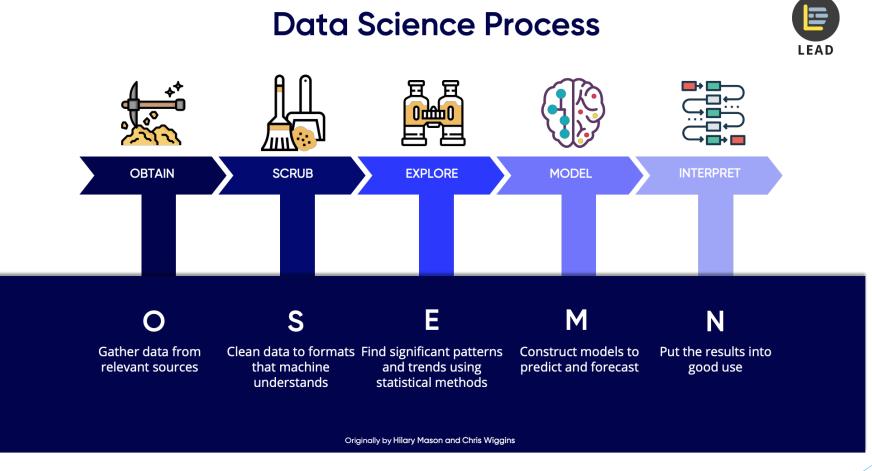
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# GOAL: Predict Housing Prices In Kings County

- Model: Multivariate Linear Regression
- Variables:
  - Number Of Bedrooms
  - Number Of Bathrooms
  - Square Footage Of The Home
  - Square Footage Of The Lot
  - Total # Of Floors
  - Waterfront View
  - Overall Condition Of The House
  - Grade Based On KC Grading System
  - Number Of Times Viewed

- Inclusion Of A Basement
- Year Built
- Year Renovated
- Zipcode
- Latitude
- Longitude
- Square Footage Of Nearest 15 Neighbors' Homes
- Square Footage Of Nearest 15 Neighbors' Lots

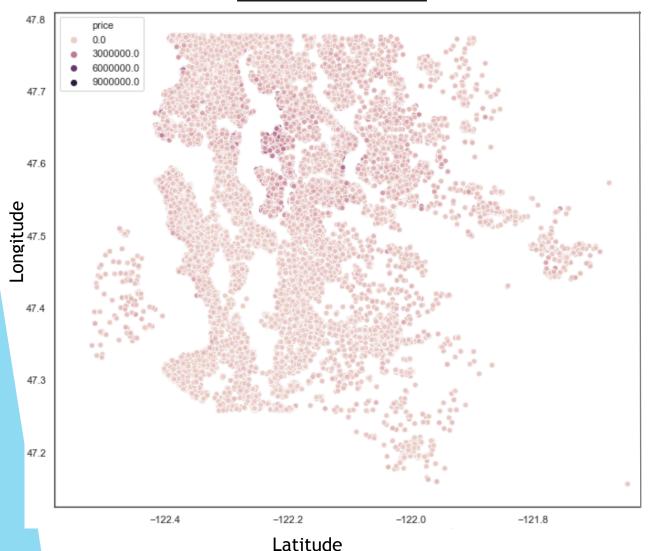
#### **METHODOLOGY**



Source: 5 Steps of a Data Science Project Lifecycle

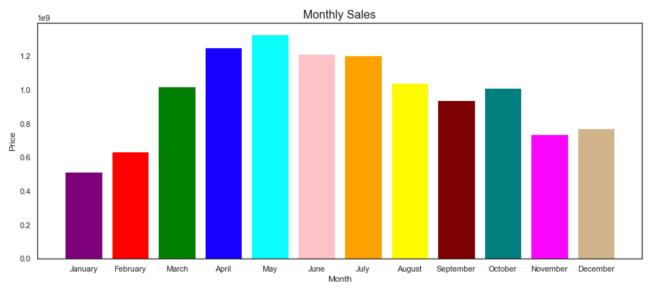
#### What is the best location?

#### Location vs. Price

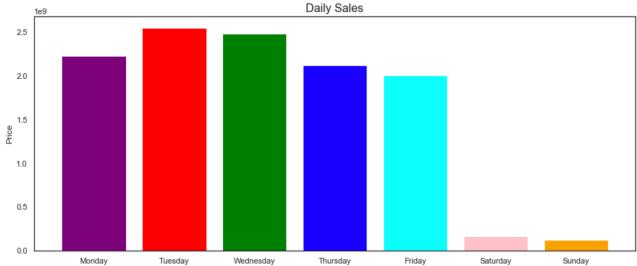


Premium priced houses (\$3,000,000+) tend to be located towards the outskirts of the more northern housing areas. There also is a cluster of them near 47.6 longitude and -122.2 latitude. Selling in one of these prime locations will be key to maximizing profit.

### When is the best time of year to sell?



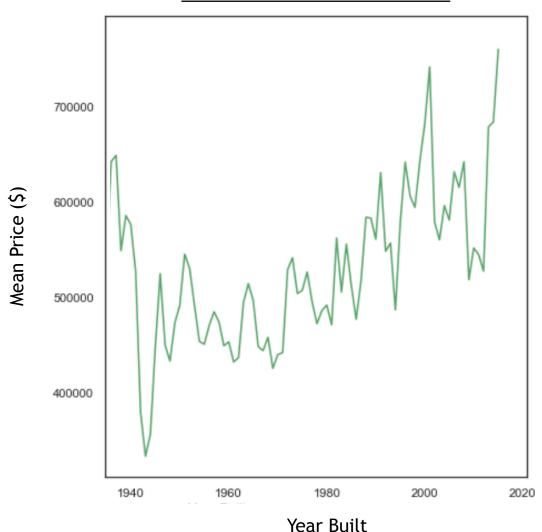
Sell during the spring/summer months to garner the greatest profit (March-August).



Selling on a weekday is advised as it brings in significantly more revenue than weekends.

### Do people prefer new or old homes?

#### Mean Price Per Year Built



People are typically willing to spend more for newer homes.

# What other factors have a strong influence on price?

- Square footage of the house and neighboring houses -Larger houses sell for higher prices, especially when built near other large, expensive houses.
- ► <u>Grade of the house</u> More expensive homes often are given a higher grade rating from the town.
- Number of Bathrooms Homes with more bathrooms tend to be more expensive homes.
- ► <u>Waterfront View</u> Having a waterfront view can increase the value of a home.

## Conclusion: Variables to take into account when seeking high home sale profits

- Location
- Waterfront view
- Time of year and day of the week
- When the house was built
- Size of the home
- Number of bathrooms
- Grade of the home