



HOUSE PRICE PREDICTION PROJECT

How to predict the price of houses in King County, Seattle
(USA)

NEED TO KNOW



How to predict the sale price of the houses?



Does the geographic/physical surroundings or internal features of the house affect the price?



How to predict houses with maximum sale price and therefore profits?

HOUSING DATASET

- The data analyzed is from King County, Seattle, Washington.
- The dataset contains features about: bedrooms, bathrooms, square footage, location, view, waterfront, number of floors. The data is collected from 2014 to 2015 for 21,597 houses.
- Used multiple linear regression to build a model to predict the price sale.



RECOMMENDATIONS

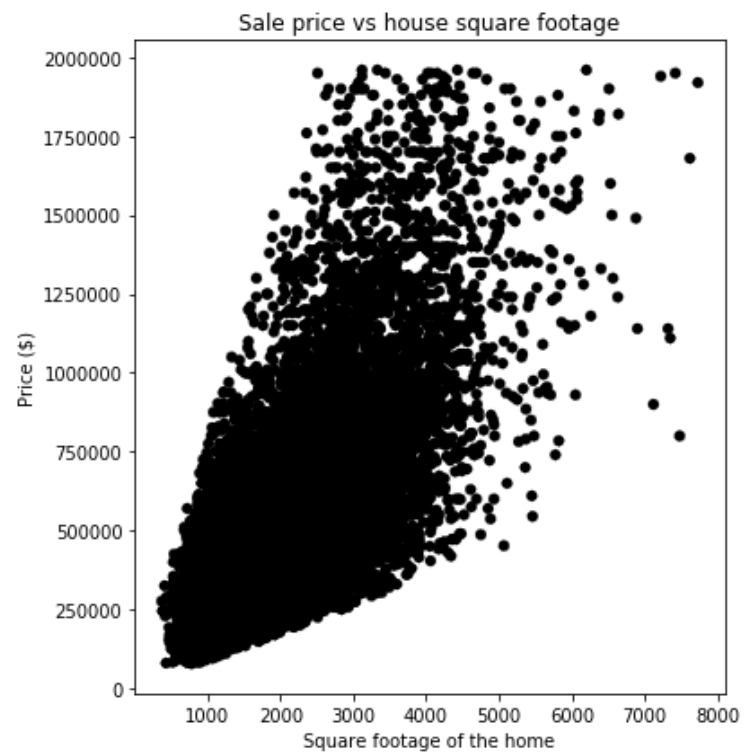
For real estate investors/real estate companies:

The most important features that can render profits are square footage of the house, house grade and the location.

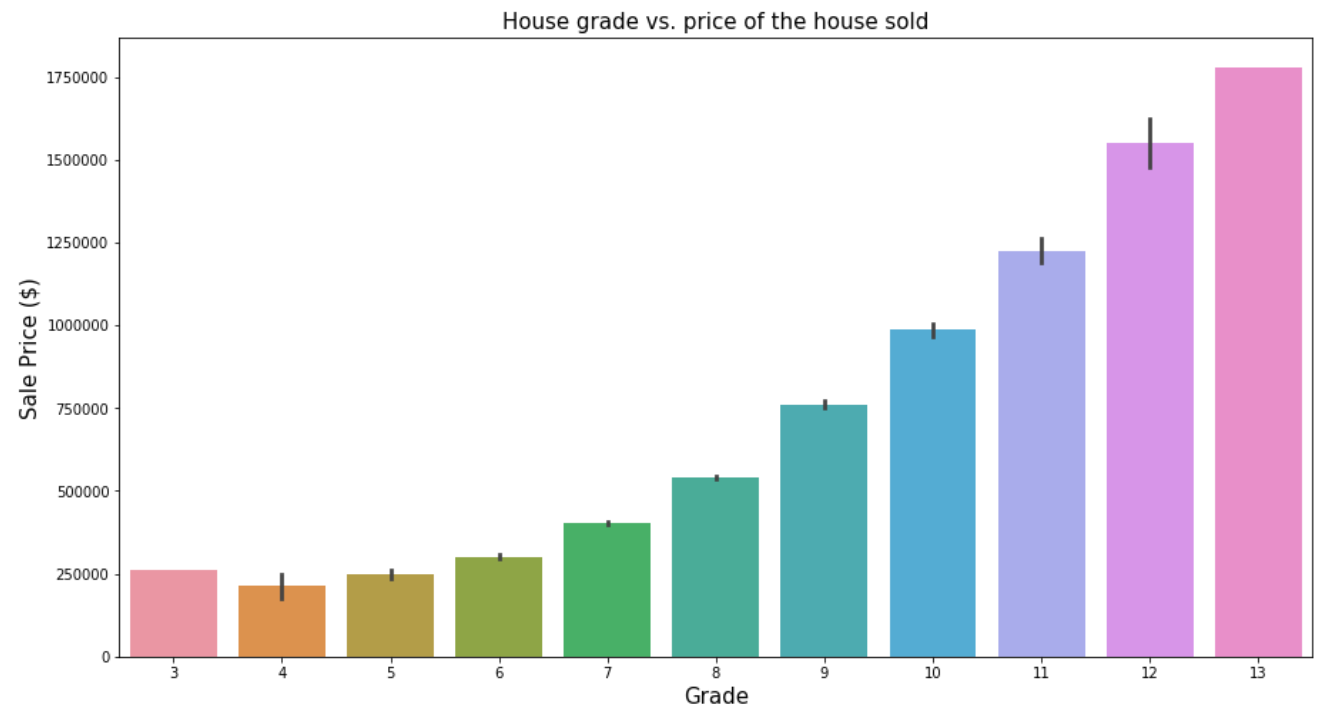
Other features can double the price of the property such as view and waterfront.



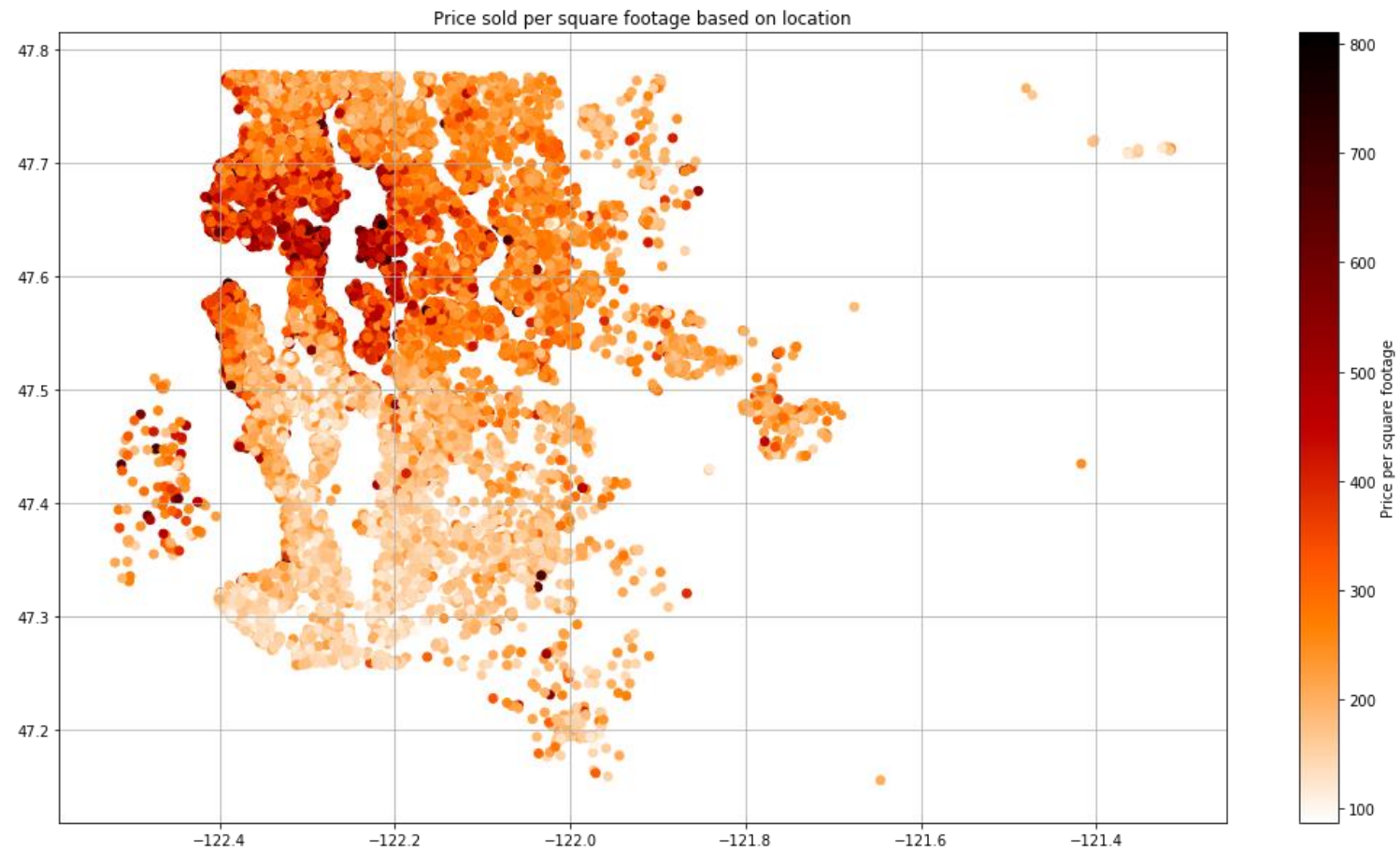
HOUSE SQUARE FOOTAGE



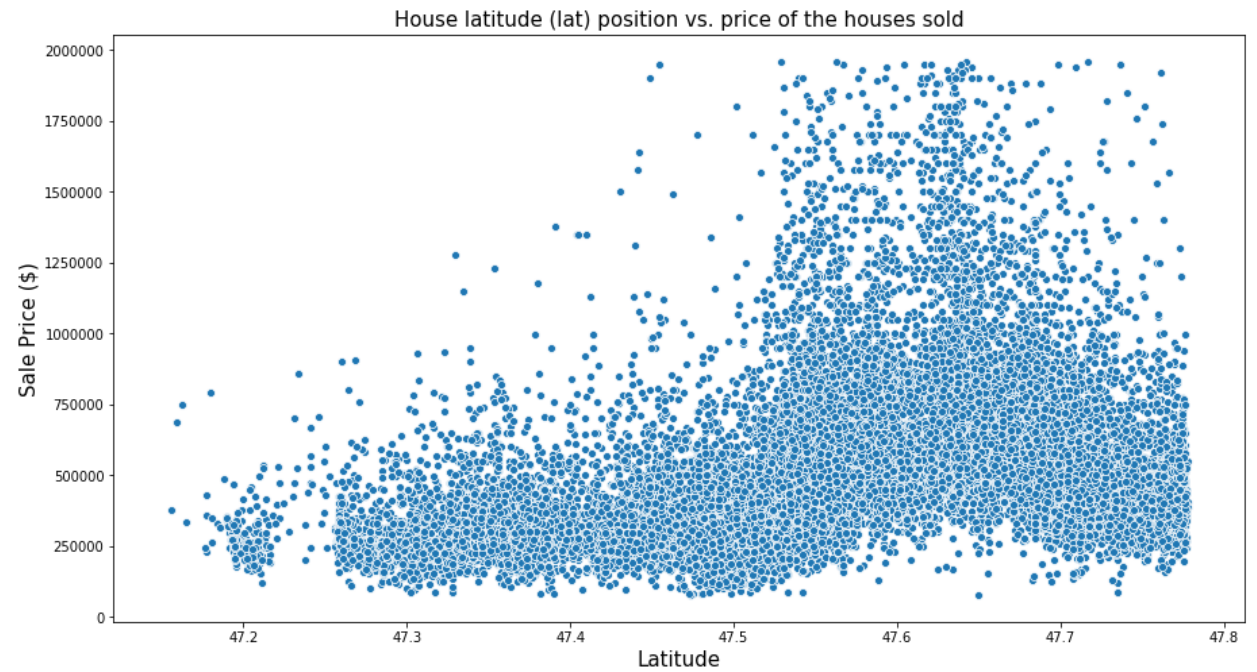
HOUSE GRADE



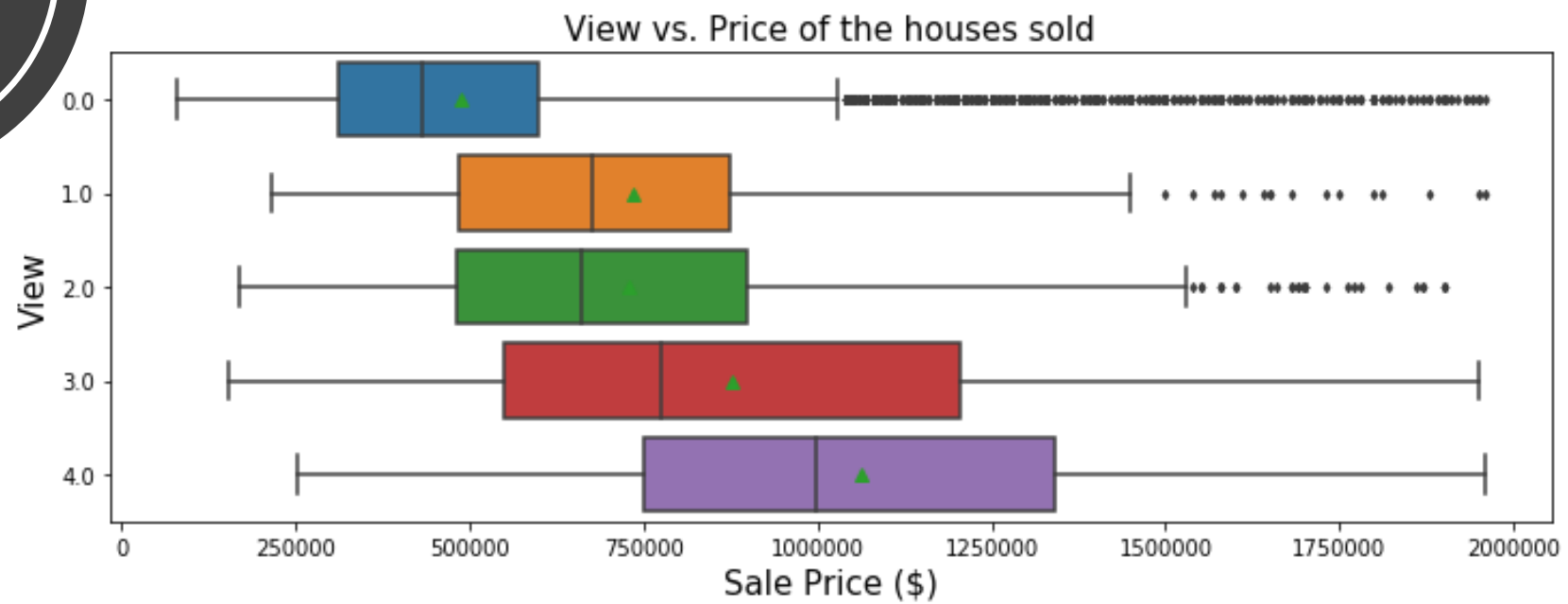
LOCATION



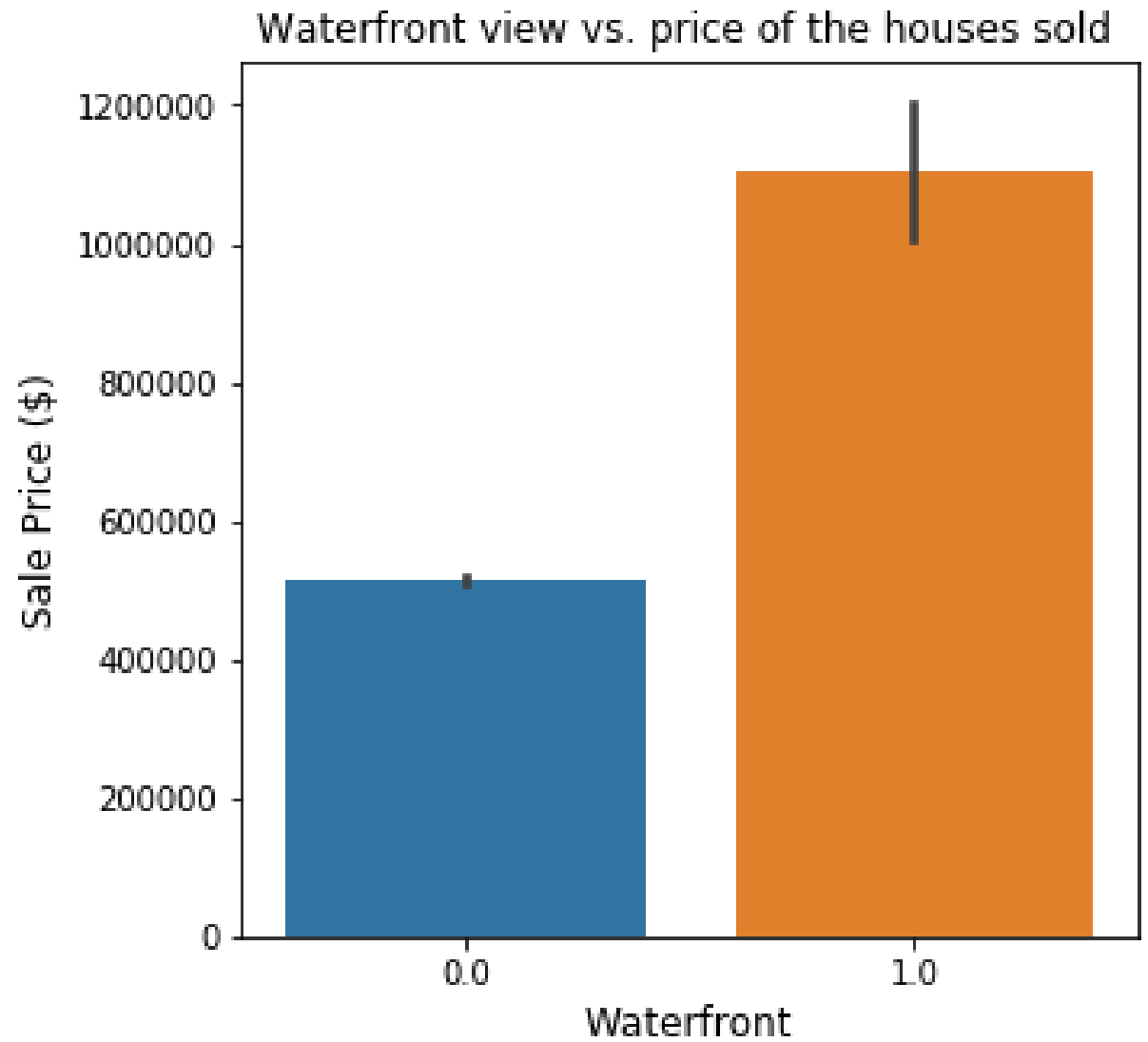
LOCATION (LATITUDE)



VIEW



WATERFRONT





CONCLUSION

Most important features to predict the sale price of houses in King County Seattle: square footage of the house and the grade

Geographic/ physical surrounding (i.e., location, view, waterfront) and the internal features of the house (square footage, grade) do have influential effects of the price change (decrease/increase) of the sale price.

Important features that can be targeted to increase the sale price of the property: square footage, grade and location of the house. More features can be added to boost even more the price such as view and waterfront.



FUTURE WORK

More data is needed to do prediction algorithm that will help real estate investors with their concerns. When to buy/sell/hold on a property to earn maximum profits and avoid financial losses.

To be able to answer these questions, we need data at least collected for 10 years to analyze. More features are deemed necessary to incorporate into the model (upgrades, garage, pool, school district ...etc..). More features will produce better algorithm for price sale prediction.