House Sales Predictions

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Data Exploration and cleaning

1 Looking at the statistics of the data
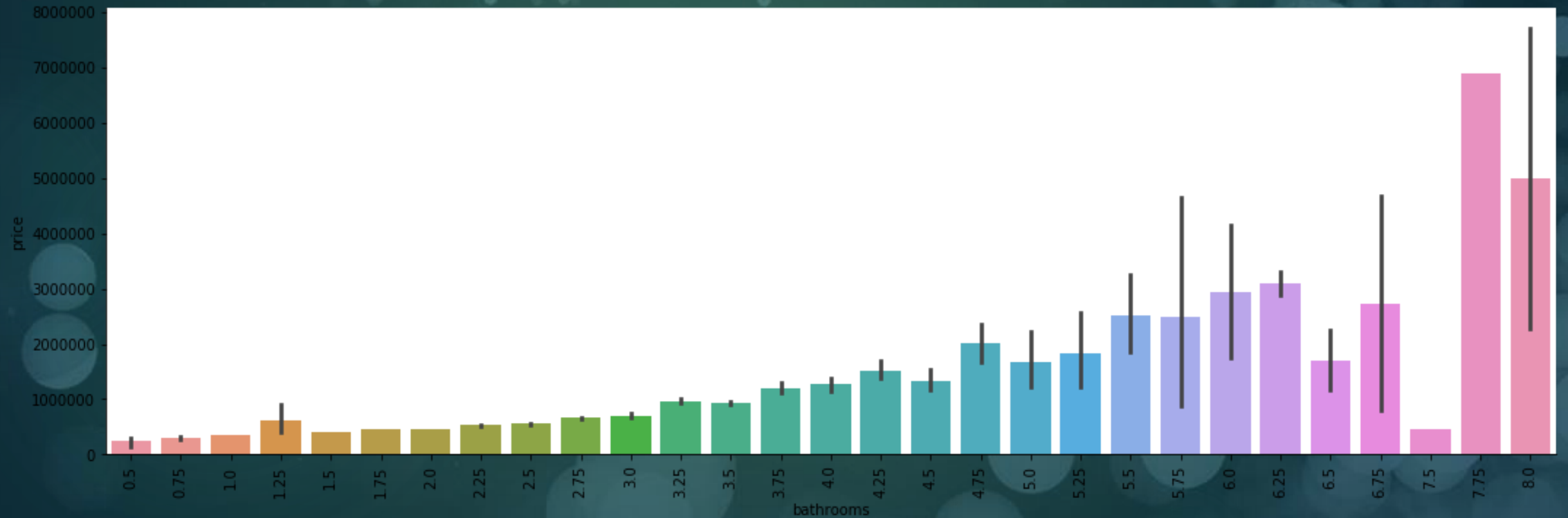
2 Visualizing different variable with price
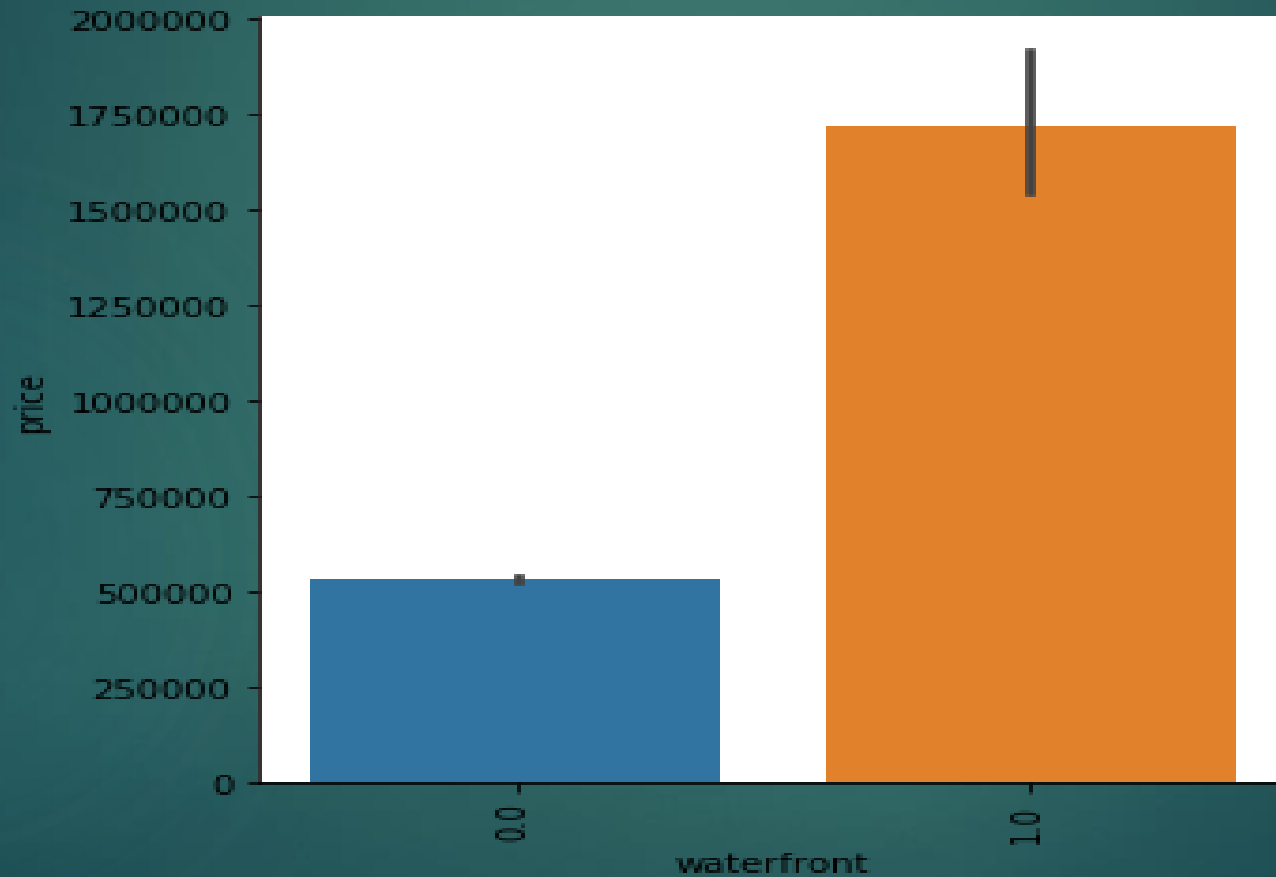
3 Replacing null values

The Data

- Newest house built was in 2015

- The most bathrooms a house has is 8 but 70% of houses have between a bath and 3 quarters and a two and a half bath.

- And 70% of the houses have between 3 and 4 bedrooms.

- Most of the houses do not have a waterfront view.

- The average number of bedrooms were 3 when rounded down, and the average number of bathrooms were 2.

HEATMAP

Bathroom size vs. House price

Waterfront view vs. House price

Conclusion

Using all these features, I got an accuracy of 77% predicting house sale prices.

- **bedroomsNumber** - of Bedrooms/House
- **bathroomsNumber** - of bathrooms/bedrooms
- **sqft_living** - footage of the home
- **floorsTotal** - floors (levels) in house
- **waterfront** - House which has a view to a waterfront
- **view** - Has been viewed
- **grade** - overall grade given to the housing unit, based on King County grading system
- **sqft_above** - square footage of house apart from basement
- **sqft_basement** - square footage of the basement
- **zipcode** - zip
- **lat** - Latitude coordinate
- **sqft_living15** - The square footage of interior housing living space for the nearest 15 neighbors
- **sqft_lot15** - The square footage of the land lots of the nearest 15 neighbors

Future work

- Collect more data on different variables that influence the price.

Thank you