King County Housing:

Getting the Most Out of Your Future House Sale



Introduction

Your home is the biggest investment you'll ever make. Obviously, you want to maximize the return on this investment when the time comes that you're ready to move on. While there are many factors at play when it comes to home value, we will attempt to figure out the key features that drive the sale price.

In this presentation, we will be examining house sale data for King County, WA in order to pinpoint the specific factors that drive the sale price of a house in King County.



About King County

- King County is located in the northwest of Washington State.
- Population: 2,252,782 (est.)
- Most highly populated county in Washington.
- Home to Seattle-Tacoma-Bellevue metropolitan area.



1.The Data

Let's look at the King County dataset

The Data

The data used in this presentation comes from the King County Housing dataset. This dataset is fairly robust and includes information on many features of a house that can affect the overall sale price.



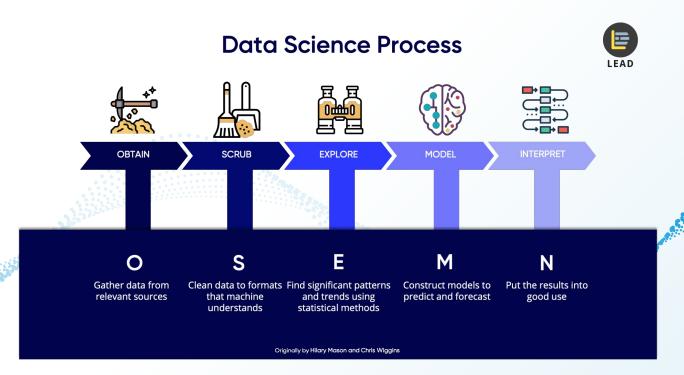
id		rice	bedrooms	bathrooms	sqft_living	sqft_lot	floors	waterfront	view	condition	grade		ft_above	sqft_baseme	yr_built	yr_reno	ovatec zipcor	le		long
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9297300055	1/24/15	650000		4	295	5000		2 ()	3	3	9	1980	970	197	79	0	98126	47.5714	-122.37
1875500060	7/31/14	395000		3	189	0 14040		2 ()	0	3	7	1890	0	199	94	0	98019	47.7277	-121.96
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2.The Process

How does this work?

The Process

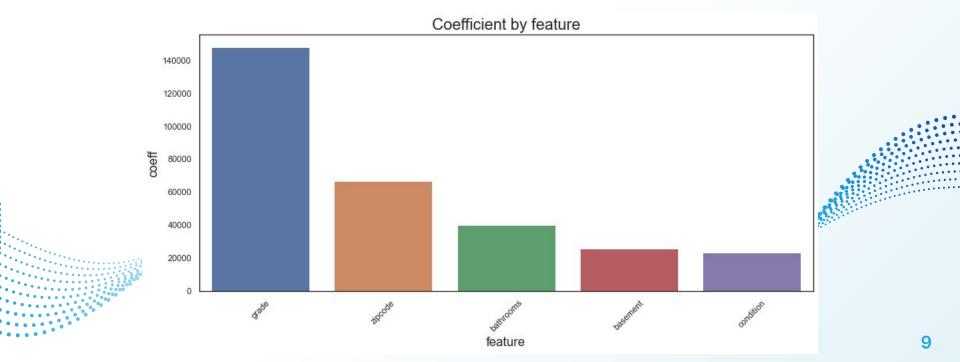
The data was processed using the OSEMN data science process. The steps of the OSEMN process are detailed in the image below.



3.The Results

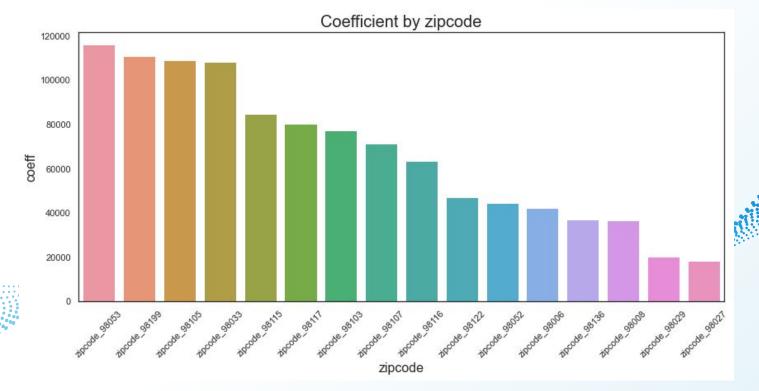
What did we find out?

We have found that the features that are most important in driving the sale price are Grade, Zipcode, Bathrooms, Basement, and Condition

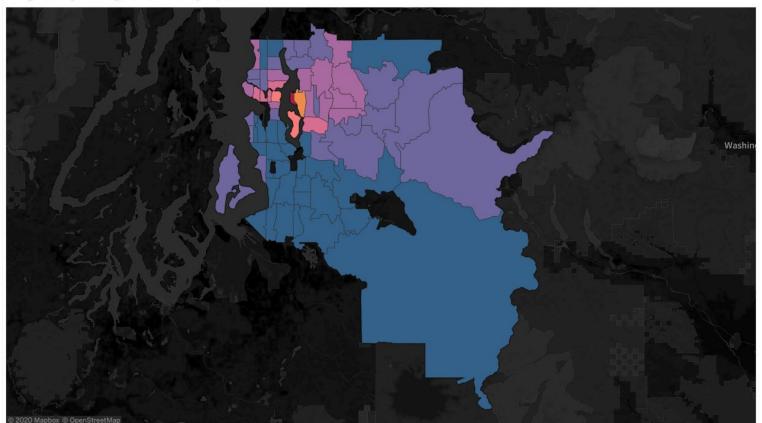


Location Consideration

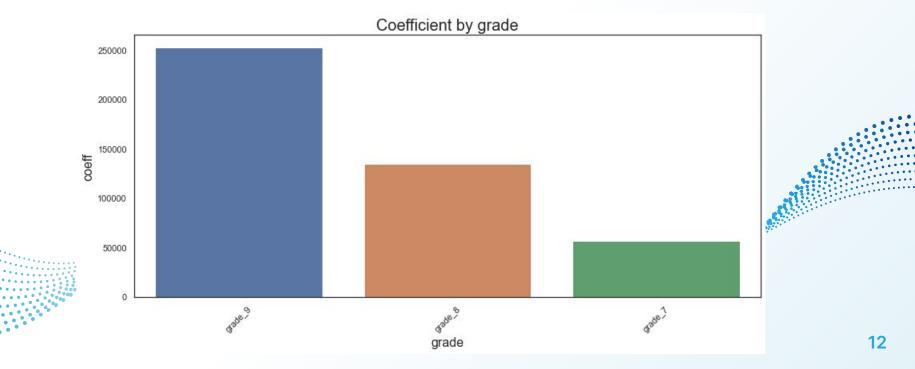
Houses in certain zipcodes do tend to sell for substantially more than houses in other zipcodes.



King County Average Sale Price by Zipcode



Grade is the largest contributor to the overall sale price. A grade within 7 and 9 represents the best return on investment.



If certain conditions are met, you can expect the following increase to your sale price.

By the Numbers:

Grade (7-9): \$148,018.74 (average)

Top Zipcodes: \$66, 629.05 (average)

Bathrooms: \$40,018.49 per bathroom

Basement: \$25,934.89 if present

Condition: \$23,521.84 if score is 5



4.Recommendations

What do we recommend?

Recommendations

Based on the results, we have the following recommendations:

- Aim for having a Grade of 9.
- If possible, increase the amount of bathrooms.
- If possible, consider creating a basement.
- Make sure your house is able to achieve a Condition grade of 5.



Future Work

With more time, we could establish a deeper understanding of the housing market and pull different insights.

Accuracy

With more time, we can increase the accuracy of our models in order to be able to dive deeper into the data.

Timing

Is there an emerging trend in your neighborhood? If the market is on the rise in your zipcode, it may be worth waiting til the optimal time to put your house on the market.

Investment Properties

Are there houses in King County that could see a huge return on investment with only minor renovations?

Thanks! Any questions?

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