King County House Sales

First Project EDA by Tjade Appel

Agenda

Business Case 1

Best price / sq ft living area

Business Case 2

Value of a good King County grade for sellers

Business Case 3

Rich, old golf player wants house near downtown

Linear Regression Model

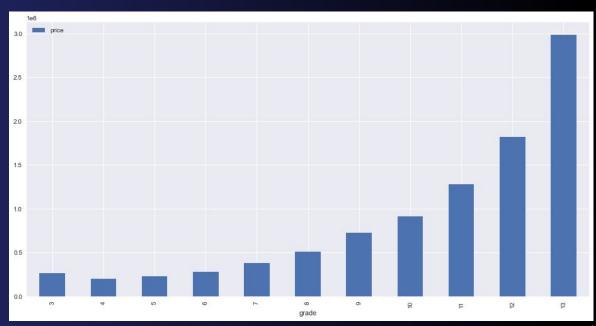
Best price / sq ft living area

The overall median price / sq ft living area in King County is 245\$

Zip code	City	Median price / sq ft living area		
98023	Federal Way	145\$		
98032	Kent	146\$		
98001	Federal Way	147\$		

Value of a good King County grade for sellers

- Median price: 450.000\$
- Quadratic correlation with median price
- High linear correlation with other indicators of a valuable property

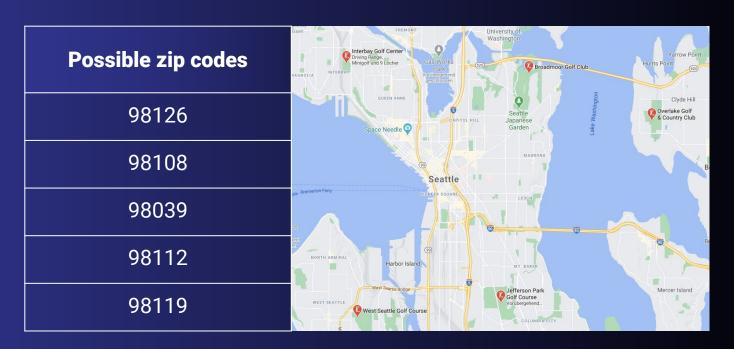


Value of King County grade in relation to price

- Median price: 450.000\$
- Quadratic correlation
- High linear correlation with other indicators of a valuable property

Correlation coefficient of grade with feature	Feature	
0.76	Living area	
0.71	Living area (15 nearest neighbours)	
0.66	Bathrooms	
-0.45	Years since last modernisation	

Rich, old golf player wants house near downtown



Rich, old golf player wants house near downtown

	Median				
Possible zip codes	Price / sq ft living area	Years since last modernisation	Sq ft basement	No. of floors	
98126	565\$	28.5	0	2	
98108	208\$	61.5	305	1	
98039	425\$	83.5	442.5	2	
98112	417\$	76	285	2	
98119	274\$	69	0	1	

Linear Regression Model

First model included every single feature $\rightarrow R^2$ -value = 0.844

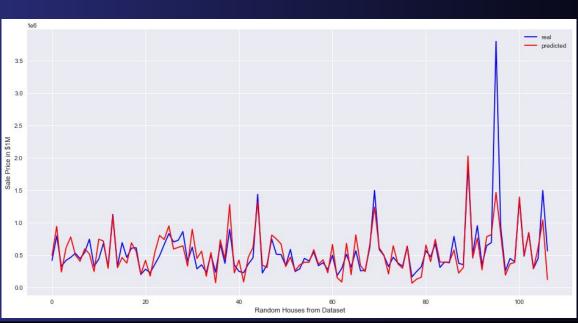
Not useful for house buyers, because most features are not known exactly

Not useful, because many of the features are highly correlated with each other

Boiled down model only includes 2 features every house buyer would know: Living area in sq feet and zip code \rightarrow R²-value = 0.731

Linear Regression Model

Boiled down model trained on 99.5% of data and tested on 0.5%



Thanks

Do you have any questions?

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