Bellevue

Estates

Our focus

1. Selling waterfront properties - higher end of property market

2. Selling grade 7 properties - lower end of the property market

Possible recommendations

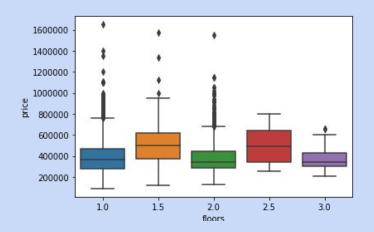
- Renovation

- Building an extension

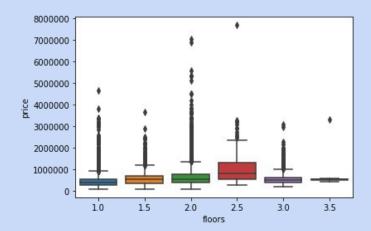
- Adding additional features

Possible recommendations: grade 7 houses

Grade 7 houses: number of floors vs price



Houses of all grades: number of floors vs price



The housing market as a whole

Factors which best predict the sale price of houses

- focus: high correlation

- avoidance: predictors which reinforce each other

Possible predictors

1) Grade

- 2) Square foot living area
- 3) Square foot living of 15 nearest neighbours

(Tentative!) results

Square foot living

$$R^2 = 0.45$$

Square foot living and square foot living 15

$$R^2 = 0.47$$

Technical notes

Regression results for model using sqft living and sqft living 15

OLS Regression Results

Dep. Variable:		price		R-squared:		0.479	
Model:		OLS		Adj. R-squared:		: 0.479	
Method:		Least Squares		F-statistic:		9945.	
Date: We		ed, 23 Oct 2019		Prob (F-statistic):		0.00	
Time:		14:36:20		Log-Likelihood:		-9741.3	
No. Observations:		21596			AIC	: 1.949	9e+04
Df Residuals:		21593			BIC: 1.951e+0		le+04
Df Model:			2				
Covariance Type: nonrobust							
	coef	std err	t	P> t	[0.025	0.975]	
Intercept	5.5274	0.060	92.700	0.000	5.410	5.644	
sqft_living	0.6213	0.009	67.790	0.000	0.603	0.639	
sqft_living15	0.3753	0.012	31.614	0.000	0.352	0.399	
Omnibus: 149.9		987 Durbin-Watson:		1.976			
Prob(Omnibus):		000 Jarque-Bera		a (JB):	126.886		
Skew:		0.128		b(JB):	2.80e-28		
Kurtos	is: 2.7	726	Cond. No.		249.		

Improving our model

1. Research the King's County grading system

2. Scaling