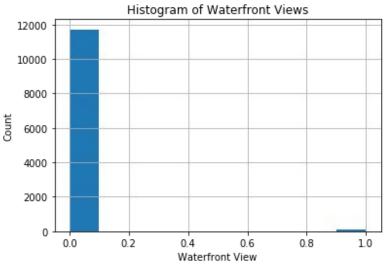
Project 1: King County Housing

Liz Alvarez

Focused on:

- houses with complete data records
- characteristics that differed between houses

date	price	bedrooms	bathrooms	
10/13/2014	221900	3	1.00	
12/9/2014	538000	3	2.25	•••
2/25/2015	180000	2	1.00	
12/9/2014	604000	4	3.00	
2/18/2015	510000	3	2.00	•••
	10/13/2014 12/9/2014 2/25/2015 12/9/2014	10/13/2014 221900 12/9/2014 538000 2/25/2015 180000 12/9/2014 604000	date price bedrooms 10/13/2014 221900 3 12/9/2014 538000 3 2/25/2015 180000 2 12/9/2014 604000 4 2/18/2015 510000 3	10/13/2014 221900 3 1.00 12/9/2014 538000 3 2.25 2/25/2015 180000 2 1.00 12/9/2014 604000 4 3.00



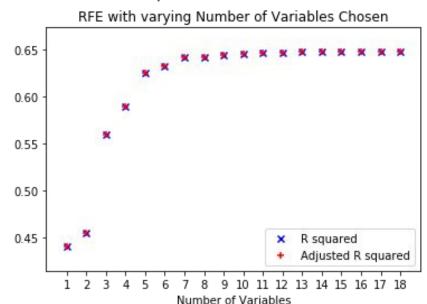
Goals for Model:

- Accurate (R²)
 - Cleaned and processed data
 - Created multiple models
 - Refined the best model



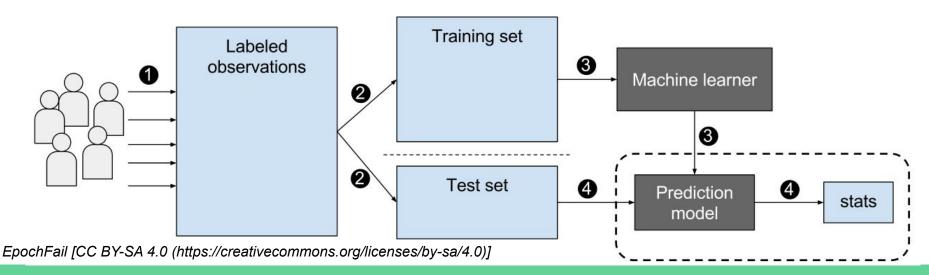
Goals for Model:

- Accurate (R²)
- Streamlined (number of predictor variables)
 - Unique variables
 - Most influential variables
 - # of variables vs. accuracy



Goals for Model:

- Accurate (R²)
- Streamlined (number of predictor variables)
- Robust (Predictions with unknown data)



The Model

Base value: \$291,900

* log transformation

~ per standard deviation

Positive Influences	Negative Influences
Grade (+\$177,600)^ Bathrooms (+\$89,600) Views (+\$78,200) Sq. Ft. Above (+\$77,930)*^ Sq. Ft. Basement (+\$50,950)^ Renovated? (+\$32,350) Condition (+\$11,090)	Year Built (-\$111,300) [~] Bedrooms (-\$26,450) [~]

Statistics Summary

- Accurate
 - \circ R²: 0.606
 - o r: 0.778
- Streamlined
 - 9 variables
- Robust
 - Mean Square Error Ratio (Test/Train): 0.987

Ideal value: 1

