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# How accurately can we predict the sale price of a

house?

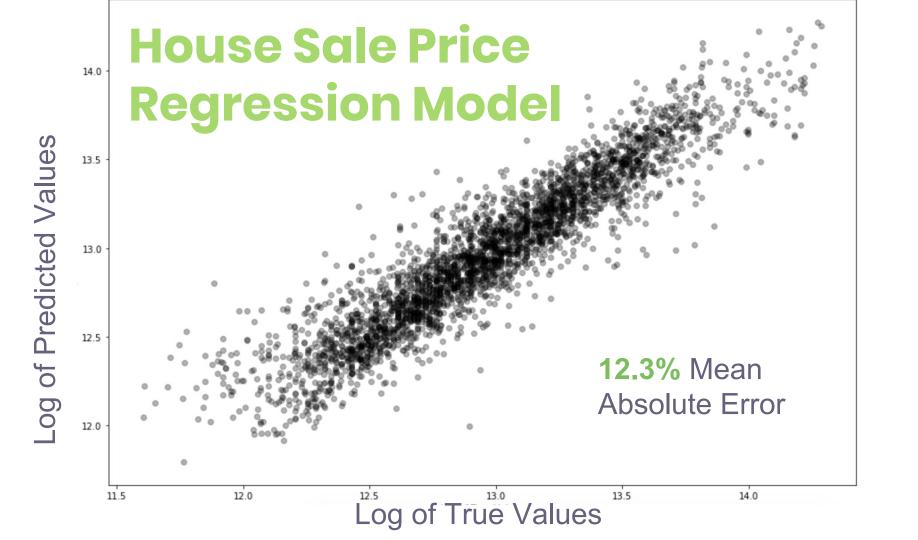
In one week, use housing data to build as accurate a predictive model as possible



### House Sales for King County

- Public domain
- 21,595 entries
- 2 years (May 2014-2015)
- 19 house features and price
- Engineered Features
  - Average zipcode price
  - Distance from Seattle





## Predictive Accuracy for House Sale Price

| Predicted | Actual    | Error     |
|-----------|-----------|-----------|
| \$296,092 | \$264,999 | \$31,093  |
| \$174,022 | \$151,000 | \$23,022  |
| \$360,742 | \$439,999 | -\$79,257 |
| \$336,684 | \$272,925 | \$63,759  |



### Moving Forward

#### **Model Refinement**

- Engineer nearest neighbor price feature
  - Apply model to full King County dataset
- Further tune model parameters

