

Ames Housing Price Model

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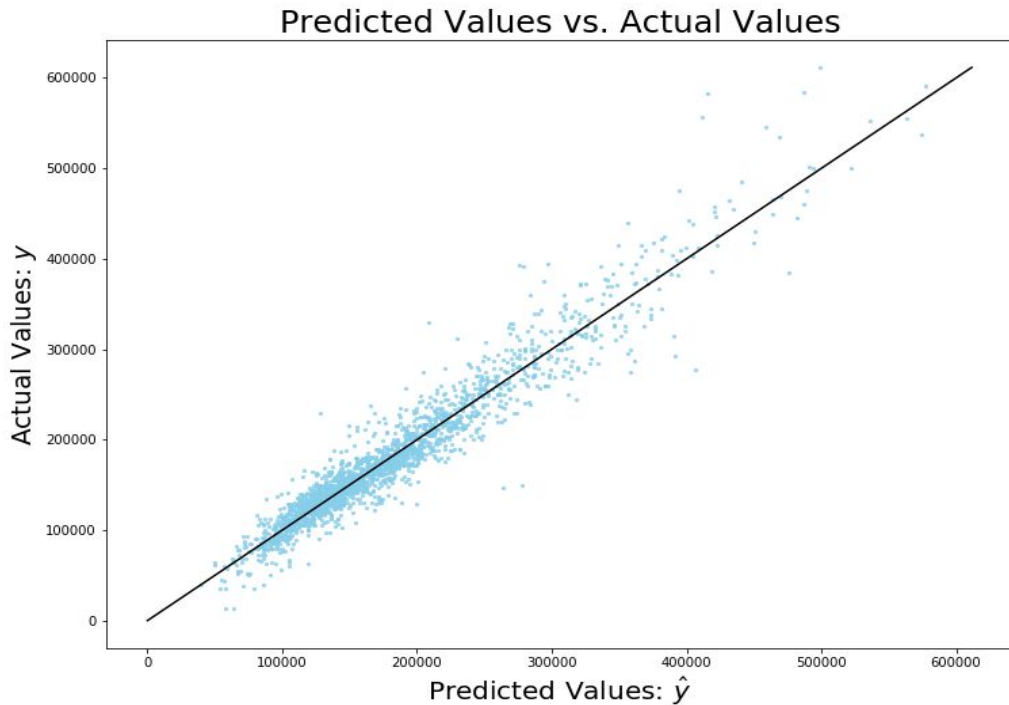
Your friendly Neighborhood Data Scientist

Buying a new home is a lengthy process:

- Research, Research, Research
- What can you afford
- Credit
- Finding an Agent
- Touring
- Offers, Bidding
- Home Inspections, Appraisals
- And so on....



My Multi - Linear Regression Model:



RMSE = \$21,539.74

$R^2 = \sim 0.90$

Housing Data from
2006 to 2010.
(2000 rows, 83 columns)

Important Features

- Overall Quality
- Overall Condition
- General Living Area (Sq ft.)
- 1st Flr, Basement Area (Sq ft.)
- Total Rooms
- Fireplace, Pool
- Garage Area, Garage Quality
- Neighborhood

SIZE vs. QUALITY

What's Next

Stay tuned for the tool...

- Coming soon!

How to use Survey Tool:

- Fill in basic information about a house to get an estimated price.
- OR fill in information after touring to get a better prediction since QUALITY is a big factor in our model.

It's a Work in Progress..

- Model isn't perfect
 - 10% variability, \$21,539.74 RMSE
- Room to improve by diving deeper with feature engineering

Directed Research

- **What are some things the survey tool didn't account for?**

