// FLATIRON SCHOOL

Revisiting Regression Projects

Today's Lesson

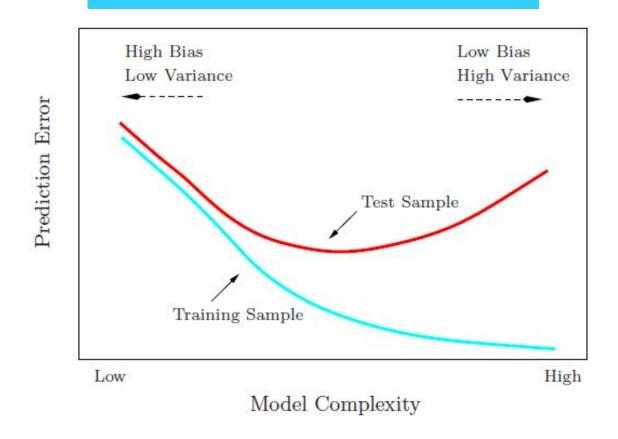
Learning Objectives

- Use a holdout set to evaluate your model from your regression project
- Use feature selection and/or regularization methods to improve your regression

Activities

- Two Notes
- Open Q & A
- Regression Project Redux

How to use a test set



Scale, Then Regularize

Because Ridge and Lasso penalize coefficients based on their magnitude, it is important to put your features on a common scale.

E.G. Home Value =
$$\beta_0 + \beta_1 * N Rooms + \beta_2 * Sale Price + \varepsilon$$

$$\beta_1 \approx $20,000 \quad \beta_2 \approx $0.98$$

Open Q & A



Regression Project Redux

With your project partner, improve your regression project using...

- Train_Test_Split()
- Feature Selection
- Ridge or Lasso Regression

By the end of the class, you should be able to answer the following questions for each method you had time to introduce:

- Why do/don't you think the method could improve your model?
- How did implementing this method affect your fitted model?
- Does implementing this method impact the extent to which your model meets the business objectives? If so, how?