Homework

Reading (seriously)

- Required: Hands on Machine Learning… chapter 2
- Required: About metrics above - write a brief (can be under 1 page) summary of how you could evaluate Regression (Boston housing) and Classification (setosa/iris) ML problems with 2-3 metrics from slide 31.
- Optional/as-needed reading: links or references in the above/supplement for anything you're less than sure of (especially the bold ones)
- Optional reading: understand (for real) precision/recall and the trade-off on P/R curve

Implementation - document your code!

- Add train test split to your house prices dataset
    - You might have to add a few additional variables to the Boston regression
    - Add L1 and L2 regularization (separately) to your Boston House Prices homework and report on the differences you observe in the loss
    - Report on model quality using at least one additional appropriate metric.
- For extra points - experiment with techniques for dealing with imbalanced classes perhaps using the consumer complaints data set or a credit card fraud set. Report on your results and thoughts of applying upsampling, downsampling, class weighting and perhaps SMOTE or similar. This page should help get started