Meeting 8

PLS-PM Cross-validation and Simulated Data

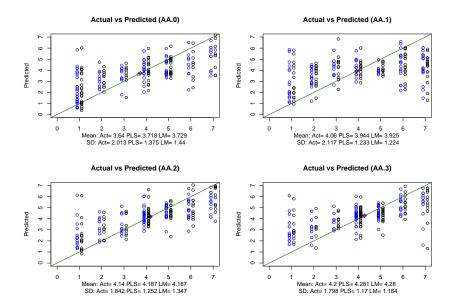
04/27/2015

Cross-validation Method

This is the process performed to produce the Cross-validation Samples:

- ▶ Load the original 183 observations.
- ► Select a random sample of 183 observations from the original data (Randomize the Observations).
- ► The first 100 randomized observations were divided into 10 subsamples of 10 observations each one.
- ► Each subset of 10 observations was taken as a holdout for an individual model, and the remaining 173 observations as a training data.
- Each model produced its own predictions.
- ▶ All the predictions were combined together to produce a set of 100 predictions based on 10 different models, with different training and holdout data.

Actual vs Predicted Scatterplot (PLS vs LM)



PLS vs Linear Regression: Joint Histogram

