STAT495 HW#6

YOUR NAME HERE

October 26, 2015

This homework is due at midnight on Sunday, November 1st. Please add, commit, and push the Rmd and pdf files to your private github repository as well as create and then close an issue for "HW#6".

The files for this assignment can be found in the STAT495-Horton github repository (called hw066Data.Rda).

Predicting sales

You've been promoted to a new position that gives you responsibility for monitoring sales at a chain of stores. Your goal is to predict sales at the store level. Data fields that are available include the store, sales (in dollars), customers (number of customers), storeopen (whether the store was open that day), promotion (whether there was a sale on), noschool (whether there was school that day), type (type of store: 4 levels), and distance (distance to nearest competitor).

Part one Part one of your challenge is to generate a model for sales that will be used to predict sales for future months. Your R Markdown file should generate a model called finalmod() which I will use to generate predicted values and calculate test error.

SOLUTION:

Part two Part two of your challenge is to interpret your model: what do you conclude about predictors of sales?

SOLUTION:

Part three Part three of your challenge is to assess your model: how well does it work for the training data?

SOLUTION:

Visualizing patterns of sales In addition to your predictive model, please generate one visualization of the data that tells a story related to sales. Please pay particular attention to the quality of your visualization. You should include a single paragraph interpretation of the figure.

SOLUTION: