1. General Course Information

Course Information

Statistical Science 4850G/9850B. Advanced Data Analysis: Statistical Learning and Predictive Analytics.

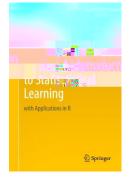
ESL



http://statweb.stanford.edu/~tibs/BemStatLearn/

This is a celebrated book in the field of statistical/machine learning communities. It is covers a large number of topics with substantial discussion of the mathematical aspects to the methods and algorithms. The authors and their colleagues, especially Leo Breiman, have made substantial contributions to ML PDF freely available.

ISLR



http://www-bcf.usc.edu/~gareth/ISL/

This is an easy to read simple account of a few of the most important methods discussed in the ESL book. A CRAN package ISLR is provided. PDF freely available.

APM



Covers many methods in ELS, more than ISL and with more depth and insight. Datasets are available in the CRAN package AppliedPredictiveModeling. The CRAN package caret implements many of the techniques from this book and an online tutorial provides a comprehensive overview: http://topepo.github.io/caret/index.html

5. Methods of Evaluation		