Homework 5

Due on 04/28/2019

This problem involves the `OJ` data set which is part of the ISLR package. The data contains 1070 purchases where the customer either purchased Citrus Hill or Minute Maid Orange Juice. A number of characteristics of the customer and product are recorded. Use `set.seed()` for reproducibility. Create a training set containing a random sample of 800 observations, and a test set containing the remaining observations.

(a) Fit a support vector classifier (linear kernel) to the training data with `Purchase` as the response and the other variables as predictors. What are the training and test error rates?

(b) Fit a support vector machine with a radial kernel to the training data. What are the training and test error rates?

(c) Which approach seems to give a better result on this data?