Mth Stat
 568/768 – Multivariate Statistical Analysis – Spring
 2024

Homework 4

Due Wednesday, March 27

- 1. Consider the bupa_liver_disorder data set, where a number of individuals are classified into two classes according to blood test results (see full description on p. 258 of the book).
 - (a) Split the data set into training and test sets (roughly a 70/30 split). Compute the logistic classifier using the training set.
 - (b) Construct the misclassification table and compute the misclassification rate for the test set.
- 2. Consider the ecoli data set. These data were obtained in a study of protein localization sites for 336 examples of *E. coli*. There are 7 predictor variables and a class variable, localization site, which indicates the protein localization.
 - (a) Split the data set into training and test sets (roughly a 80/20 split). Compute the multinomial logistic classifier using the training set.
 - (b) Construct the misclassification table and compute the misclassification rate for the test set.