

EPPS6323 Knowledge Mining

Assignment 8

1. Lab10 in R
2. Review ISLR Chapters 7
3. Application exercise:

1. Use the College dataset and perform polynomial regression to predict Acceptance using percentage of donating alumni. Use cross-validation to select the optimal degree d for the polynomial. What degree was chosen, and how does this compare to the results of hypothesis testing using ANOVA? Make a plot of the resulting polynomial fit to the data.

甲、To start, try the following:

乙、`attach(College)`

丙、`names(College)`

丁、`par(mfrow=c(1,1))`

丁、`plot(perc.alumni, Accept)`

2. Fit a step function to predict wage using Accept, and perform cross-validation to choose the optimal number of cuts. Make a plot of the fit obtained.