Prediction, estimation and attribution
Exercises

1   CASI

Many of these exercises use data used in the book. These datasets can be found on the book webpage `https://web.stanford.edu/~hastie/CASI`.

Chapter 1 Exercises

1. (a) Fit a cubic regression, as a function of age, to the `kidney` data of Figures 1.1 and 1.2, calculating estimates and standard errors at ages 20, 30, 40, 50, 60, 70, 80.

    (b) How do the results compare with those in Table 1.1?

3. Suppose that there were no differences between AML and ALL patients for any gene, so that t in (1.6) exactly followed a student-t distribution with 70 degrees of freedom in all 7128 cases. *About* how big might you expect the largest observed t value to be? Hint: $1/7128 = 0.00014$.