

Exercises for Lecture 9

1. Bootstrap

Assume you are given a training set of N samples and use bootstrap to sample a new dataset from this set. Show that a sample is going to be in the bootstrapped dataset with probability approx. 0.632.

Remember that in bootstrap, we sample **with replacement**.

2. Bagging, random forests, and boosting lab

Do the labs in Section 8.3.3 and 8.3.4 in ISLR.