Problem Set 10

Mason Ross Hayes

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1 Tuned Parameters

I could not figure out how to get SVM and glmnet to work in mlr3. It returned error that "factor" wasn't a supported feature for these models. I also could not get nnet to work in mlr3. All of these worked in mlr, but in this Problem Set I report only results from mlr3.

For the tree model:

Tuned x: cp=0.04477, minsplit = 16, minbucket = 31, F1 = 0.8958

For KKNN, K = 28.

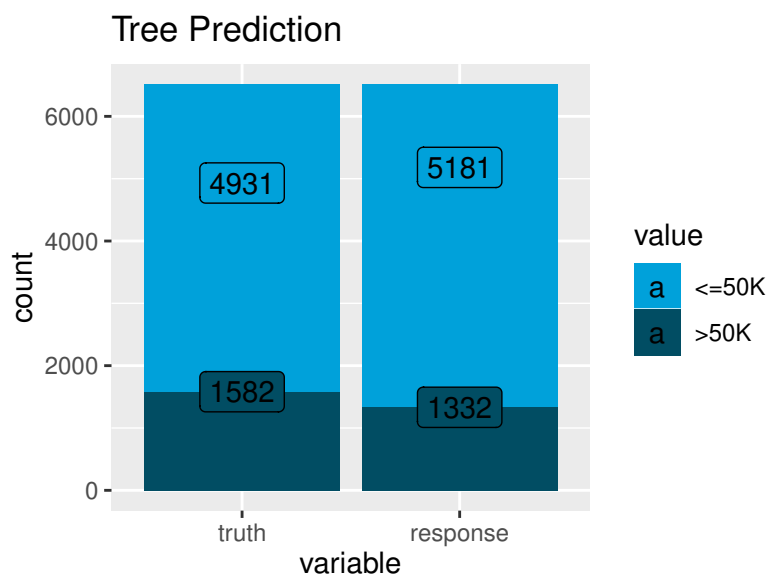Naive bayes actually outperformed both the tree and kknn models.
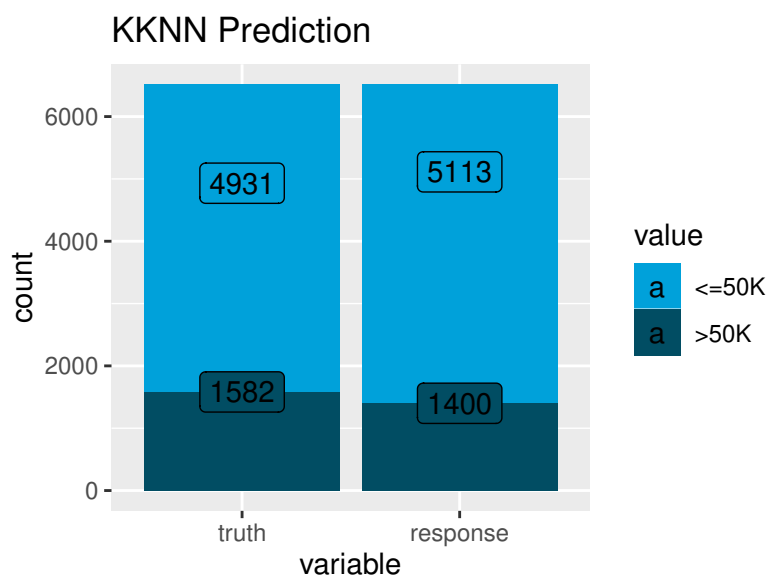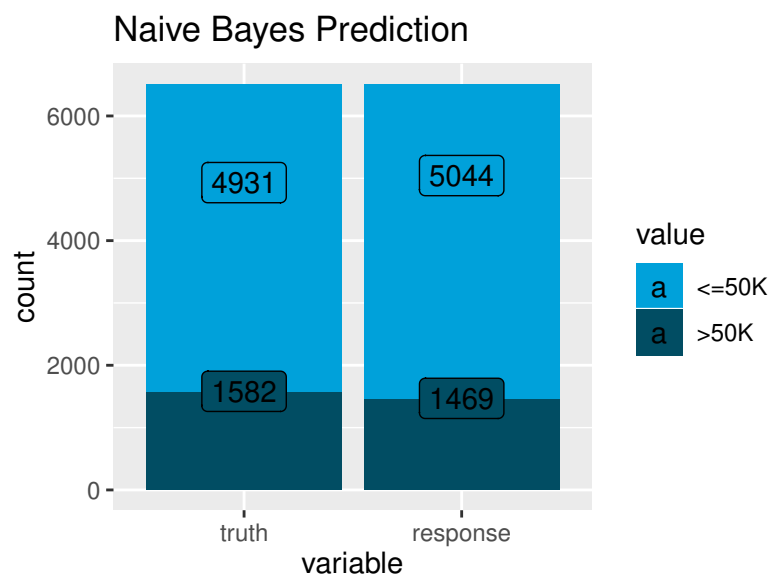
Tree Prediction

Figure 1: N = 6513

KKNN Prediction

Figure 2: N = 6513

Figure 3: N = 6513