

Assignment 3 Random Forest
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1. Parameters setting:
Number of the trees : $N = 5$;
Number of the features: featureNum = 3, total 6 features.
2.
The best accuracy that I got is:
Accuracy:
0.5756385068762279

3. Another experiment
Accuracy:
0.5399476096922069
feature: [0,3,5] : 0.5756385068762279
feature: [2,4,5]: 0.5140798952193845
feature: [0,1,4]:0.518664047151277
feature:[1,2,4]: 0.5225933202357563
feature:[3,4,5] :0.5756385068762279

As can be seen from this experiment, the tree that uses feature 3 and feature 5 got higher accuracy, this means that these two features are better. And the feature 4 is in four different trees, and the accuracies are different, which may imply feature 4 is not so important.