Experiment 1a – 70 trees, 31.9679%, 208.3 seconds

Experiment 1b – 1 feature per tree, 70 trees, 31.8909%, 96.3 seconds

Experiment 1c – 1 feature per tree, 100 trees, 32.0716% accuracy, 139.6 seconds

Experiment 1d – 1 feature per tree, 100 trees, 50 minSamplesLeaf, 32.9638%, 104.9 seconds

Experiment 2a – 70 trees, 60 minSamplesLeaf, 32.9231%, 166.3 seconds

Experiment 2b –3 features per tree, 70 trees, 60 minSamplesLeaf, 32.9231%, 165.8 seconds, need not be detailed

Experiment 2c – 3 features per tree, 60 minSamplesLeaf, 70 trees, 32.9231%, 141.2 seconds, need not be detailed

Experiment 1e – 1 features per tree, 50 minSamplesLeaf, 100 trees, 32.9638%, 111.1 seconds, need not be detailed

Experiment 2d – 3 features per tree, 60 minSamplesLeaf, 70 trees, 10 minSamplesSplit, 32.8951% underperformed default selection, need not be detailed

Experiment 1f – 1 feature per tree, 50 minSamplesLeaf, 100 trees, 75 minSamplesSplit, 32.9301%, underperformed default selection, need not be detailed

Experiment 1e – 1 feature per tree, 50 minSamplesLeaf, 100 trees, 8 maxDepth, 32.9298%, 105.9 seconds

Experiment 3a – Grid search, all features – n\_estimators 1 to 100, criterion: gini or entropy, max\_features: 1 to 8, min\_samples\_leaf 1 to 100, 4 fold cross validation

* 5 iterations, seed 0, - 32.88% accuracy, 68 trees, 36 minSamplesLeaf, 5 maxFeatures, gini criterion
* 10 iterations, seed 1,– 32.9212% accuracy, 84 trees, 76 minSamplesLeaf, 4 maxFeatures, entropy criterion
* 20 iterations, seed 3
* 20 iterations, seed 4

Experiment 3b – Grid search, all features – n\_estimators 50 to 100, criterion: gini or entropy, max\_features 3 to 6, min\_samples\_leaf 50 to 100, 4 fold cross validation

* 5 iterations, seed 0
* 20 iterations, seed 1