

## Experiments of the the optimal parameters for a single decision tree

Depth Limit: 0

0.17525773195876287

0.15979381443298968

0.14948453608247422

0.14948453608247422

0.17010309278350516

0.16494845360824742

0.13402061855670103

0.1958762886597938

0.13917525773195877

0.1658291457286432

Average: 0.1628180417

Depth Limit: 1

0.30927835051546393

0.23711340206185566

0.29381443298969073

0.23711340206185566

0.25257731958762886

0.22164948453608246

0.2268041237113402

0.27319587628865977

0.25773195876288657

0.271356783919598

Average: 0.2575514405

Depth Limit: 2

0.31958762886597936

0.42783505154639173

0.32989690721649484

0.3402061855670103

0.38144329896907214

0.3865979381443299

0.36597938144329895

0.3556701030927835

0.3865979381443299

0.3065326633165829

Average: 0.3603957605

Depth Limit: 3

0.4329896907216495

0.3917525773195876

0.422680412371134  
0.4484536082474227  
0.42783505154639173  
0.38144329896907214  
0.4072164948453608  
0.422680412371134  
0.38144329896907214  
0.40703517587939697  
Average: 0.4105595213

Depth Limit: 4  
0.5309278350515464  
0.4484536082474227  
0.4742268041237113  
0.5360824742268041  
0.5103092783505154  
0.4536082474226804  
0.4329896907216495  
0.4742268041237113  
0.5412371134020618  
0.46733668341708545  
Average: 0.4909961685

Depth Limit: 5  
0.5  
0.4329896907216495  
0.5670103092783505  
0.520618556701031  
0.4896907216494845  
0.4896907216494845  
0.4690721649484536  
0.5103092783505154  
0.5154639175257731  
0.4321608040201005  
Average: 0.4971994843

Depth Limit: 6  
0.5670103092783505  
0.4845360824742268  
0.5721649484536082  
0.5257731958762887  
0.5463917525773195  
0.5  
0.5567010309278351

0.4845360824742268  
0.510309  
Average: 0.5260384564

Depth Limit: 7  
0.5927835051546392  
0.5412371134020618  
0.5670103092783505  
0.5515463917525774  
0.5051546391752577  
0.5360824742268041  
0.5670103092783505  
0.6443298969072165  
0.5051546391752577  
0.45226130653266333  
Average: 0.545268548

Depth Limit: 8  
0.5670103092783505  
0.5721649484536082  
0.5154639175257731  
0.5927835051546392  
0.5670103092783505  
0.5051546391752577  
0.5927835051546392  
0.5824742268041238  
0.5927835051546392  
0.592964824120603  
Average: 0.5693560482

Depth Limit: 9  
0.5876288659793815  
0.5515463917525774  
0.5463917525773195  
0.6134020618556701  
0.5721649484536082  
0.5309278350515464  
0.5670103092783505  
0.5154639175257731  
0.5412371134020618  
0.5678391959798995  
Average: 0.5593612392

Depth Limit: 10

0.5721649484536082  
0.6288659793814433  
0.634020618556701  
0.5567010309278351  
0.6237113402061856  
0.5979381443298969  
0.6082474226804123  
0.5463917525773195  
0.6237113402061856  
0.5628140703517588  
Average: 0.5954566648

Depth Limit: 11  
0.5670103092783505  
0.6288659793814433  
0.6185567010309279  
0.5721649484536082  
0.6030927835051546  
0.654639175257732  
0.6752577319587629  
0.6649484536082474  
0.6288659793814433  
0.6331658291457286

Average: 0.6246567891

Depth Limit: 12

0.6134020618556701

0.634020618556701

0.5927835051546392

0.6288659793814433

0.5773195876288659

0.6391752577319587

0.6288659793814433

0.6391752577319587

0.5618556701030928

0.6381909547738693

Average: 0.6160536082

Depth Limit: 13

0.6030927835051546

0.5927835051546392

0.6649484536082474

0.6391752577319587

0.6391752577319587

0.6082474226804123

0.6134020618556701

0.6134020618556701

0.6288659793814433

0.6482412060301508

Average: 0.6214587629

Depth Limit: 14

0.6288659793814433

0.6185567010309279

0.6804123711340206

0.6288659793814433

0.7319587628865979

0.6237113402061856

0.6443298969072165

0.6701030927835051

0.6391752577319587

0.6482412060301508

Average: 0.6489453608

Depth Limit: 15

0.654639175257732

0.5979381443298969

0.6443298969072165

0.6597938144329897

0.6030927835051546  
0.6443298969072165  
0.6030927835051546  
0.6443298969072165  
0.6237113402061856  
0.5778894472361809  
Average: 0.6257632941