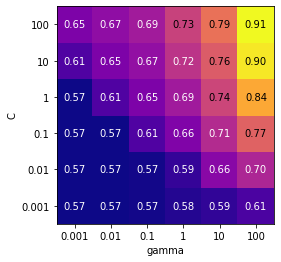
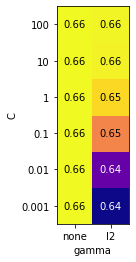
grid\_1\_res\_Automatic\_NS

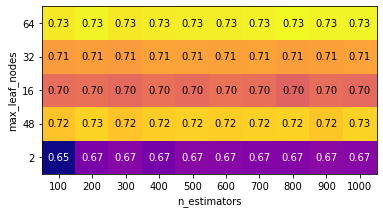
{'max\_leaf\_nodes': 64, 'n\_estimators': 800}

{'C': 0.001, 'penalty': 'none'}

{'C': 100, 'gamma': 100}







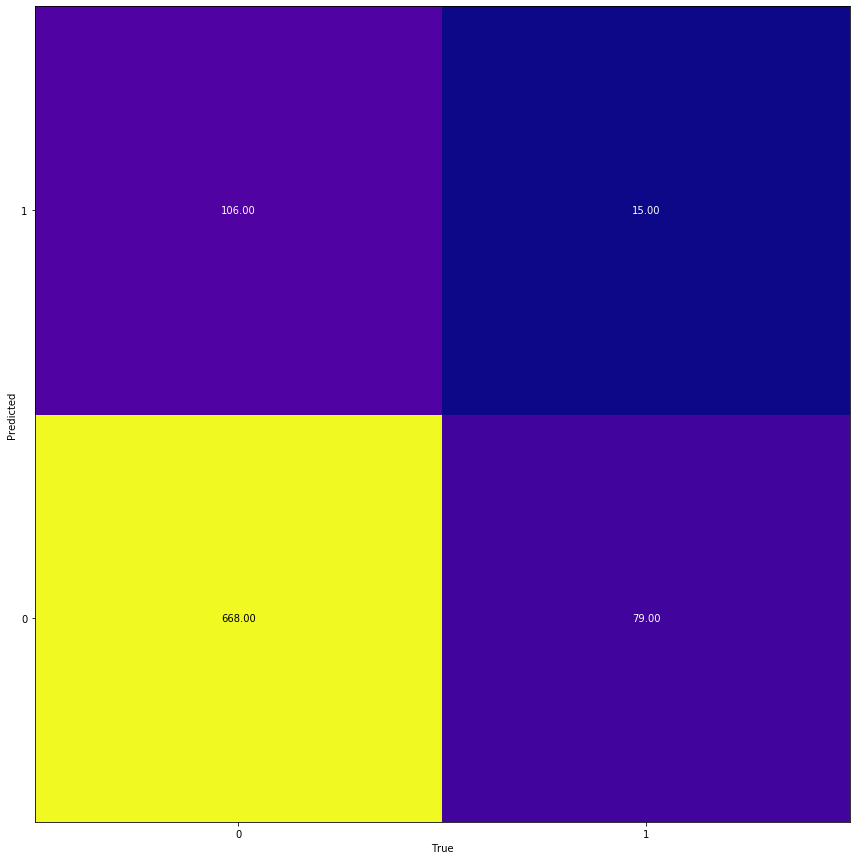
SVM rbf

R^2: 0.7868663594470046

recall\_score: 0.7868663594470046

f1\_score: 0.7868663594470046

accuracy\_score: 0.7868663594470046



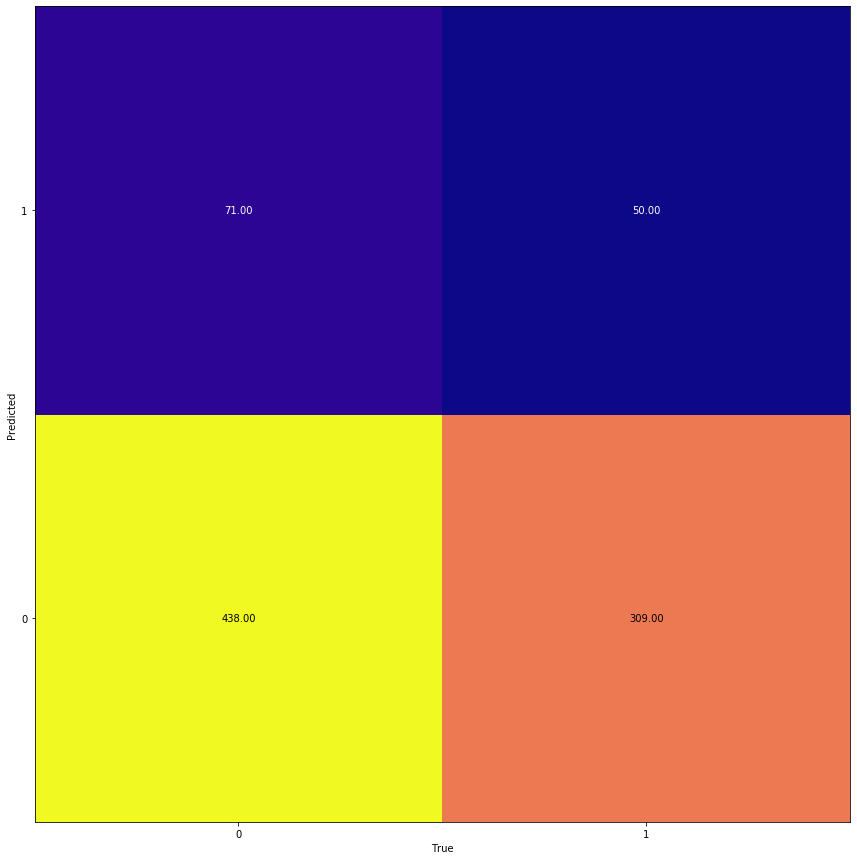
LogReg

R^2: 0.5622119815668203

recall\_score: 0.5622119815668203

f1\_score: 0.5622119815668203

accuracy\_score: 0.5622119815668203



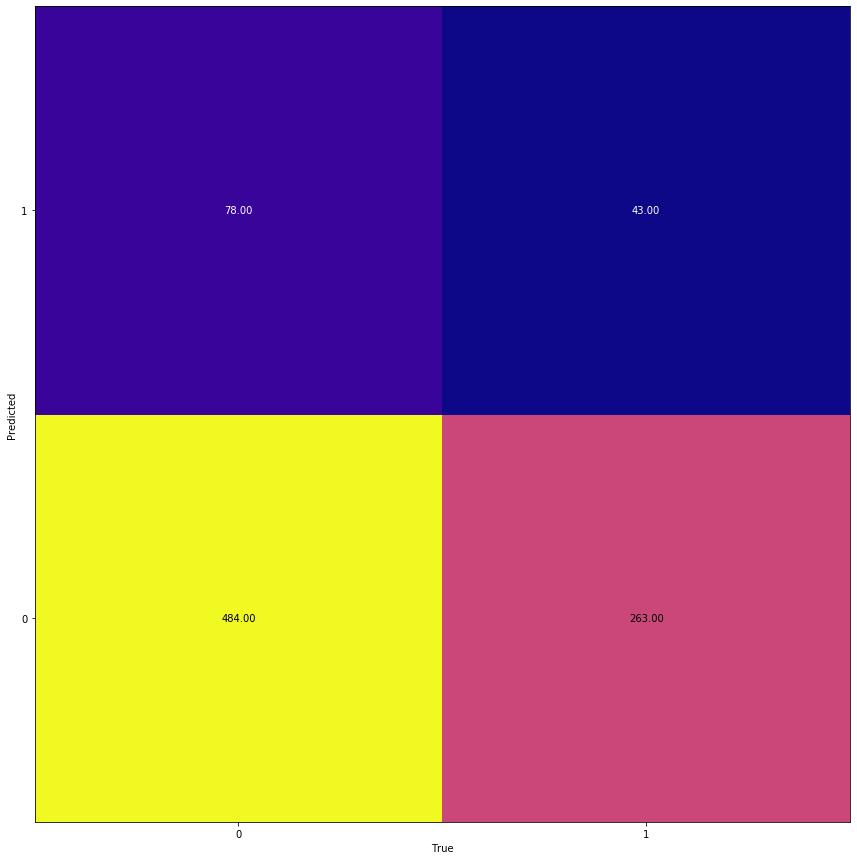
RND

R^2: 0.6071428571428571

recall\_score: 0.6071428571428571

f1\_score: 0.6071428571428571

accuracy\_score: 0.6071428571428571

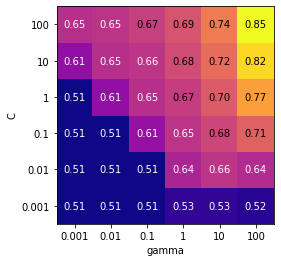


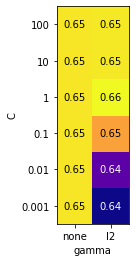
grid\_1\_res\_Automatic\_IE

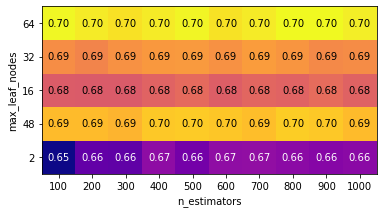
{'C': 100, 'gamma': 100}

{'C': 1, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 800}







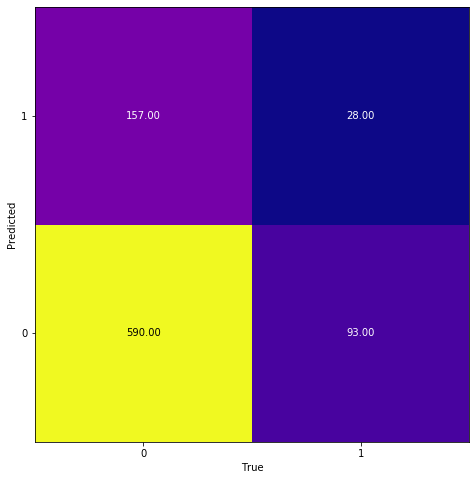
SVM rbf

R^2: 0.7119815668202765

recall\_score: 0.7119815668202765

f1\_score: 0.7119815668202765

accuracy\_score: 0.7119815668202765



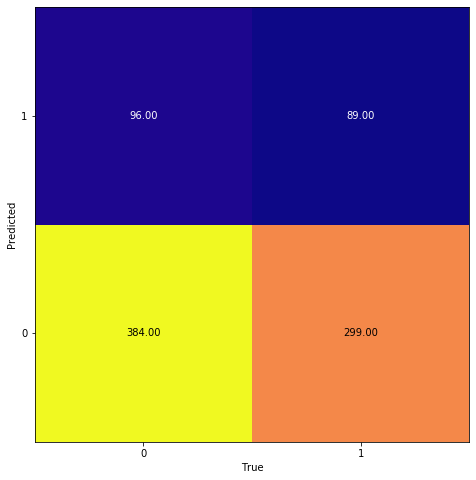
LogReg

R^2: 0.5449308755760369

recall\_score: 0.5449308755760369

f1\_score: 0.5449308755760369

accuracy\_score: 0.5449308755760369



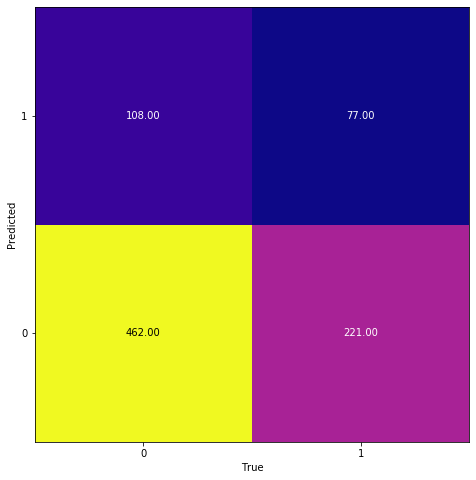
RND

R^2: 0.6209677419354839

recall\_score: 0.6209677419354839

f1\_score: 0.6209677419354839

accuracy\_score: 0.6209677419354839

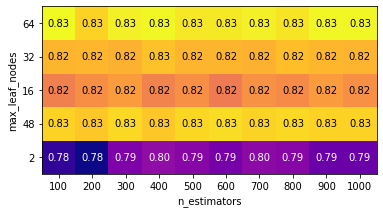
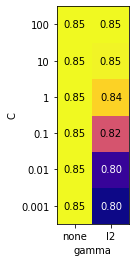
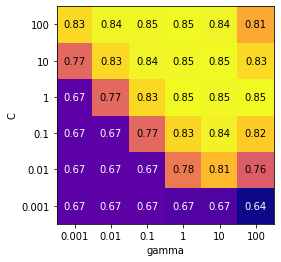


grid\_1\_res\_Automatic\_TF

{'C': 10, 'gamma': 10}

{'C': 0.001, 'penalty': 'none'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 100}



SVM rbf

R^2: 0.47235023041474655

recall\_score: 0.47235023041474655

f1\_score: 0.4723502304147465

accuracy\_score: 0.47235023041474655

LogReg

R^2: 0.4308755760368664

recall\_score: 0.4308755760368664

f1\_score: 0.4308755760368664

accuracy\_score: 0.4308755760368664

RND

R^2: 0.46543778801843316

recall\_score: 0.46543778801843316

f1\_score: 0.46543778801843316

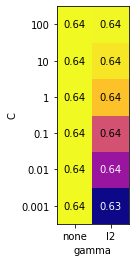
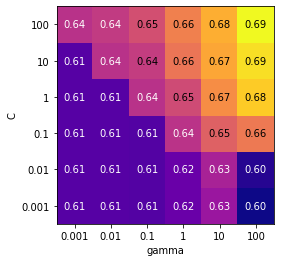
accuracy\_score: 0.46543778801843316

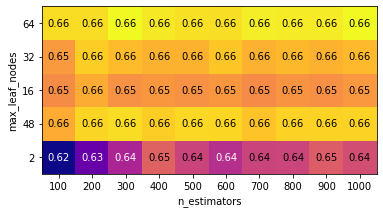
**grid\_1\_res\_Automatic\_JP**

{'C': 100, 'gamma': 100}

{'C': 0.001, 'penalty': 'none'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 1000}





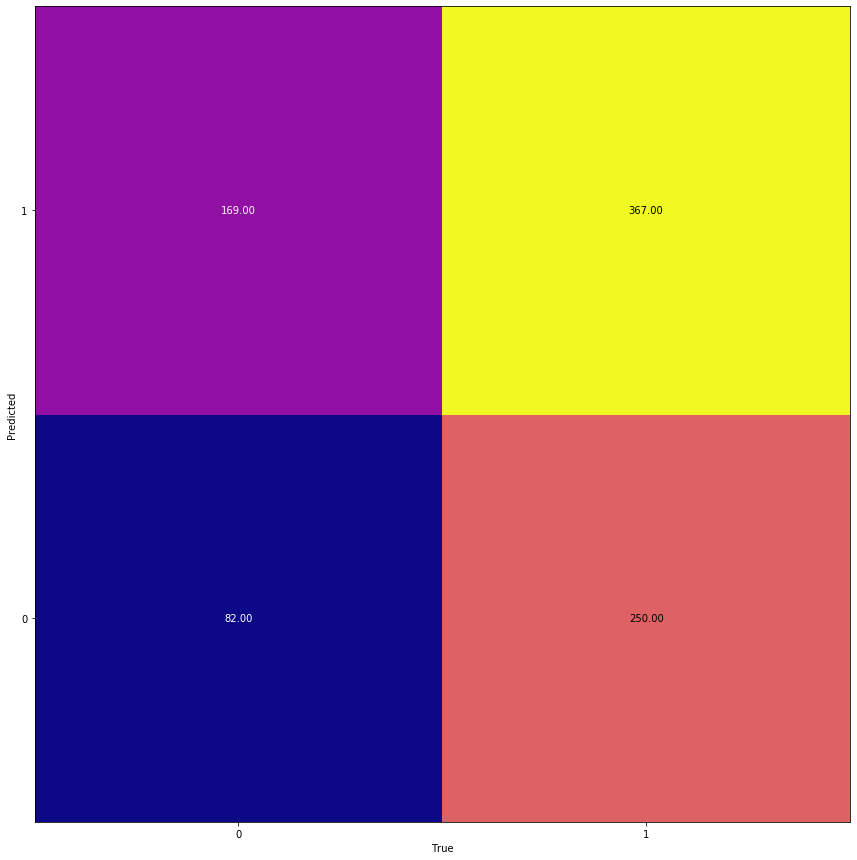
SVM rbf

R^2: 0.5172811059907834

recall\_score: 0.5172811059907834

f1\_score: 0.5172811059907834

accuracy\_score: 0.5172811059907834



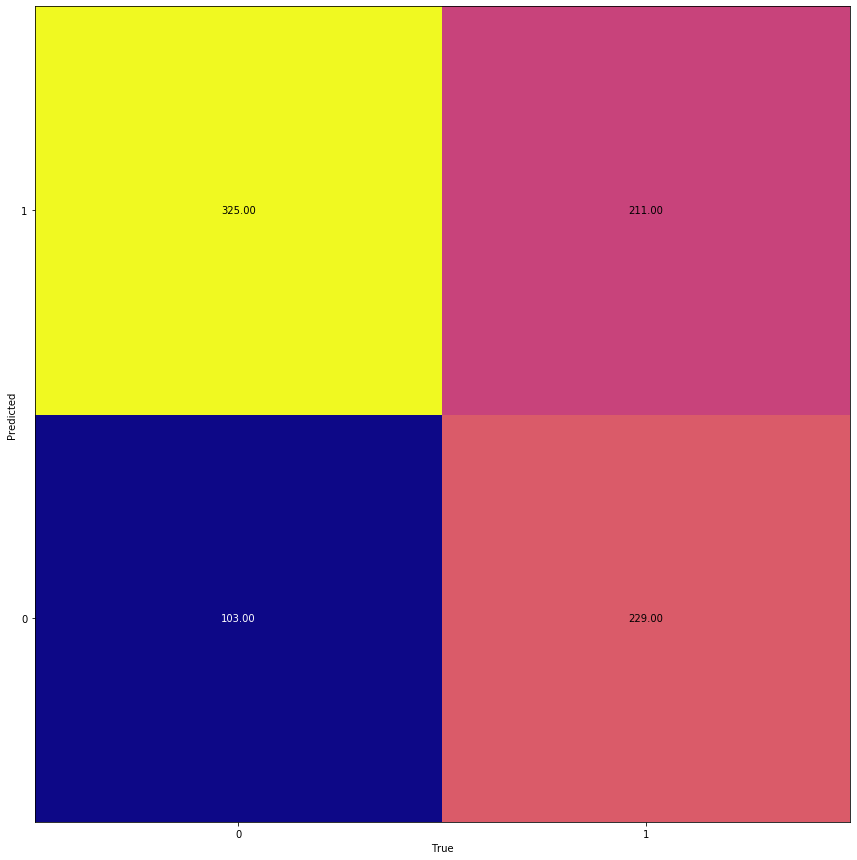
LogReg

R^2: 0.3617511520737327

recall\_score: 0.3617511520737327

f1\_score: 0.3617511520737327

accuracy\_score: 0.3617511520737327



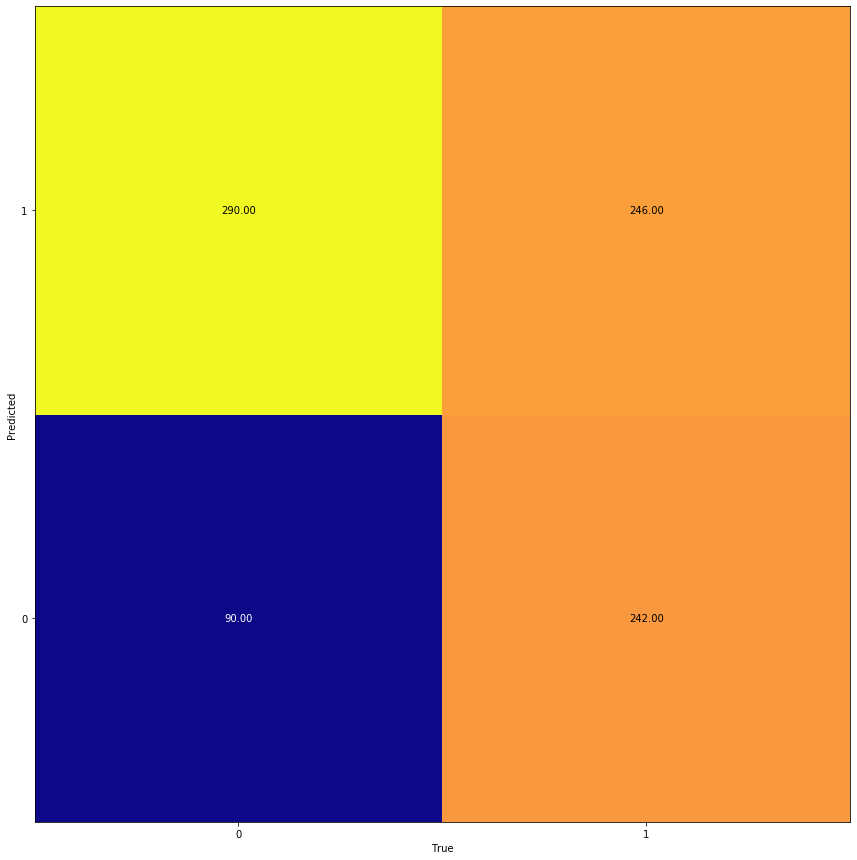
RND

R^2: 0.3870967741935484

recall\_score: 0.3870967741935484

f1\_score: 0.3870967741935484

accuracy\_score: 0.3870967741935484



PCA

Resampling normalnie 2

{'C': 100, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 400}

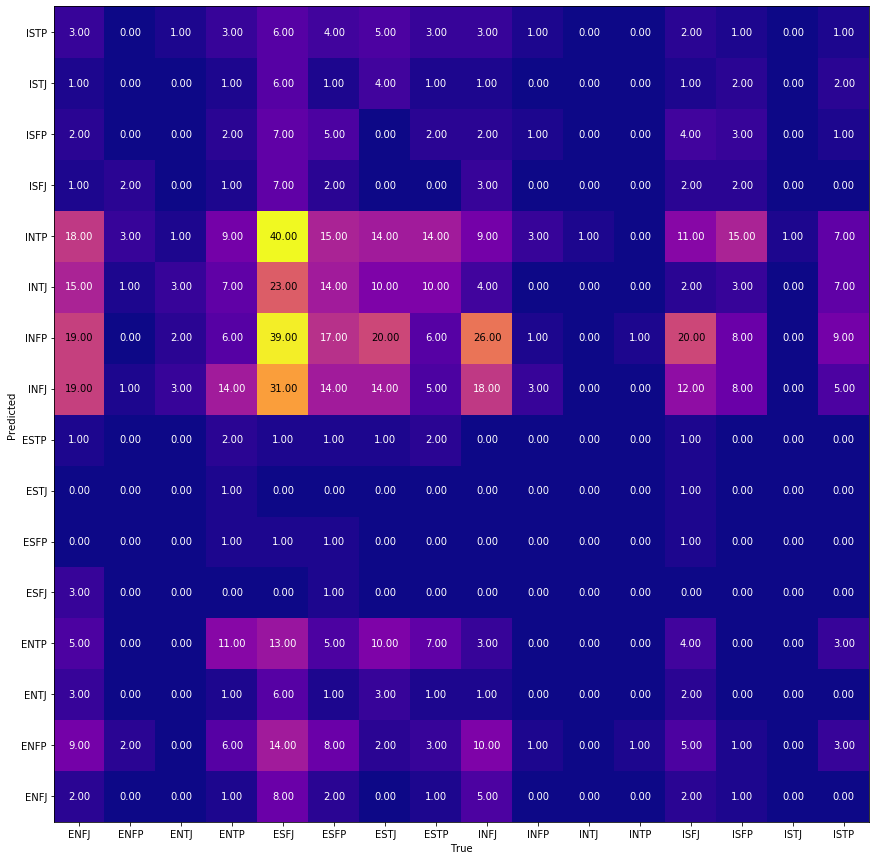
LogReg

R^2: 0.04953917050691244

recall\_score: 0.04953917050691244

f1\_score: 0.04953917050691244

accuracy\_score: 0.04953917050691244



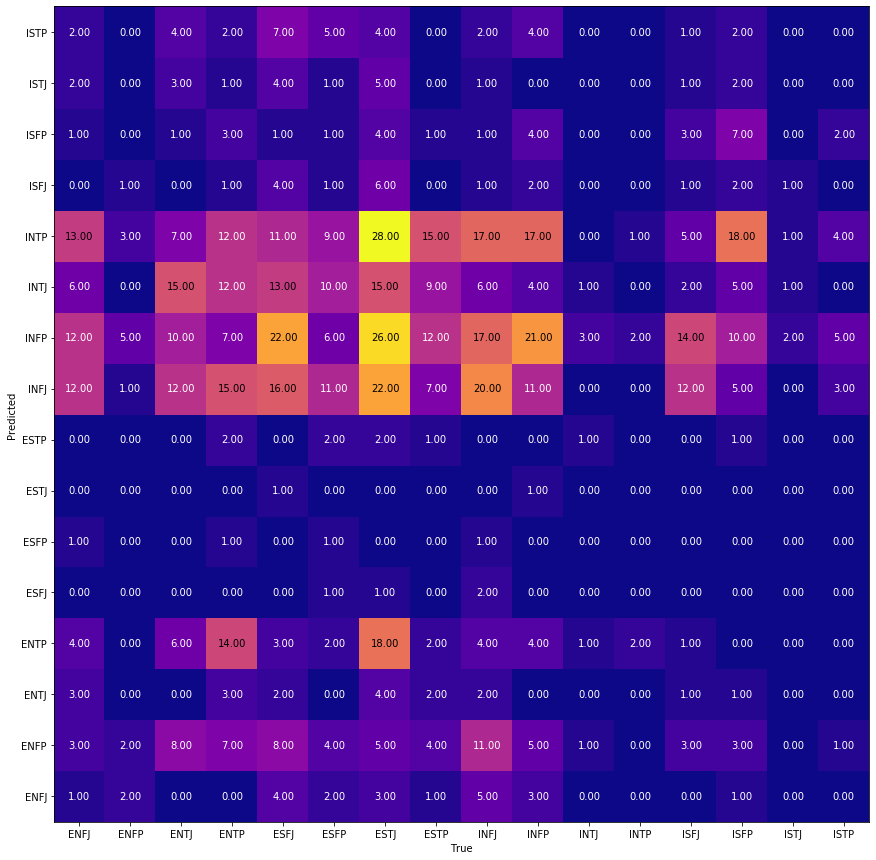
RND

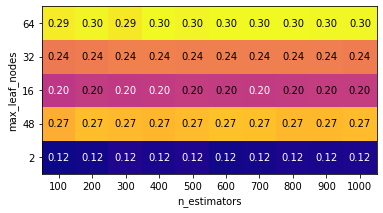
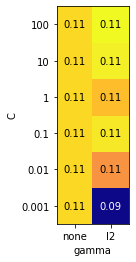
R^2: 0.08064516129032258

recall\_score: 0.08064516129032258

f1\_score: 0.08064516129032258

accuracy\_score: 0.08064516129032258



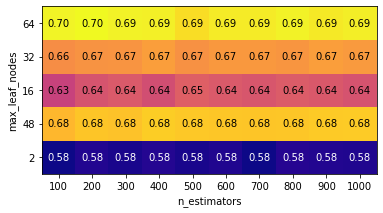
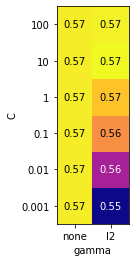


grid\_2\_res\_normal\_IE

{'C': 10, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 200}

In [26]:



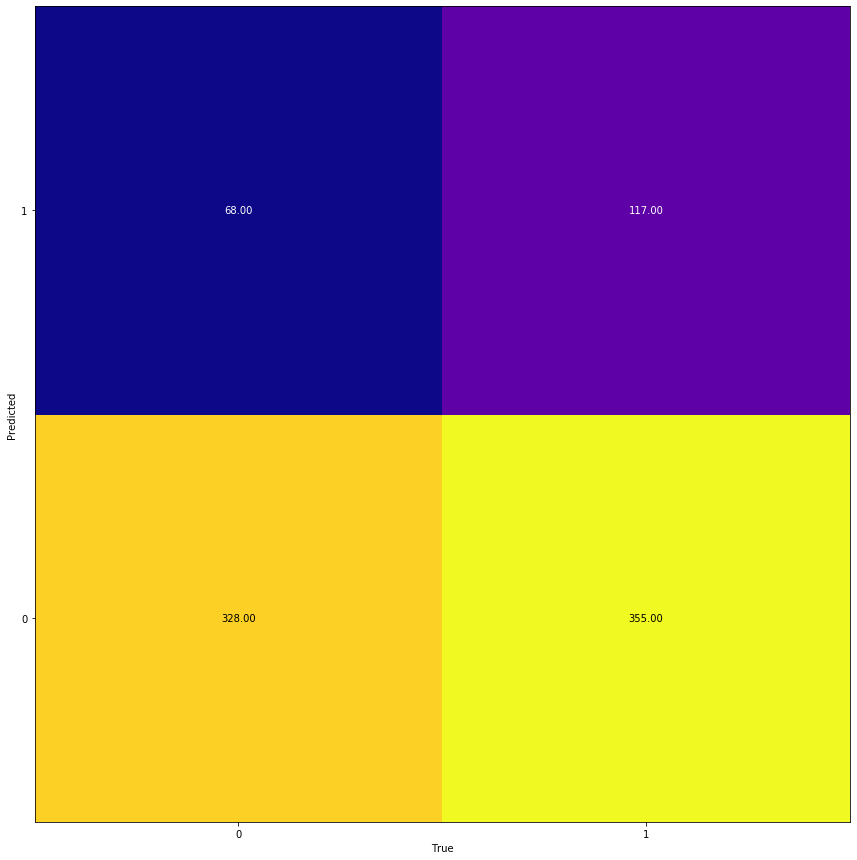
LogReg

R^2: 0.5126728110599078

recall\_score: 0.5126728110599078

f1\_score: 0.5126728110599078

accuracy\_score: 0.5126728110599078



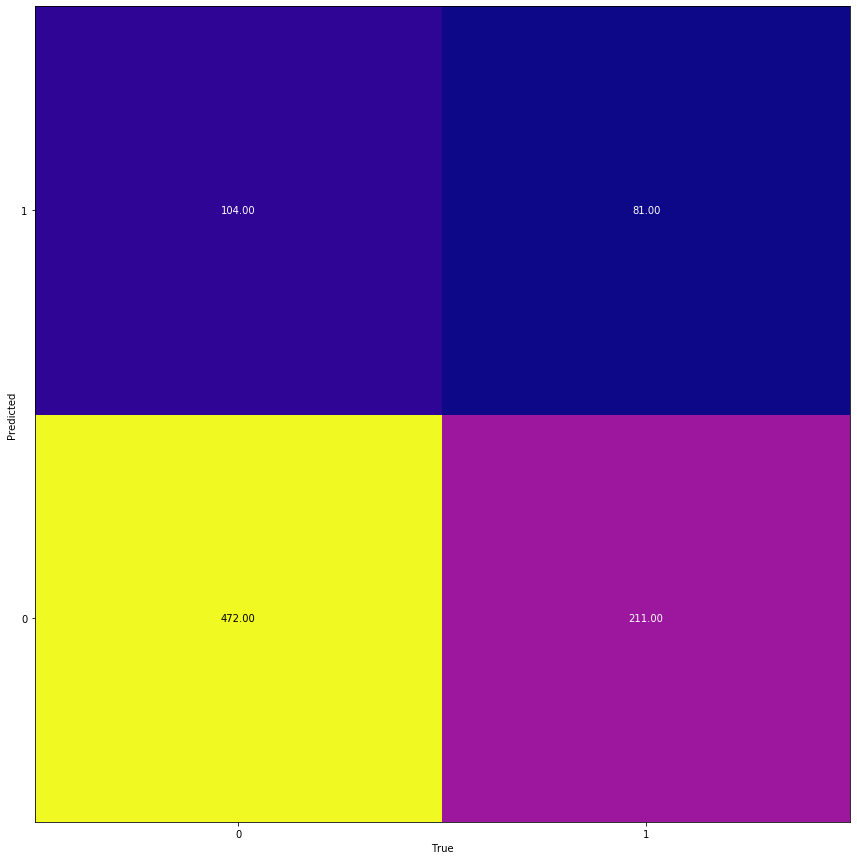
RND

R^2: 0.6370967741935484

recall\_score: 0.6370967741935484

f1\_score: 0.6370967741935484

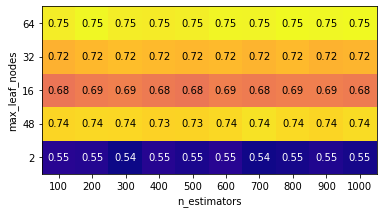
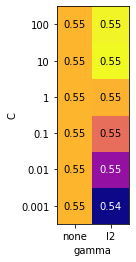
accuracy\_score: 0.6370967741935484



grid\_2\_res\_normal\_NS

{'C': 10, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 1000}



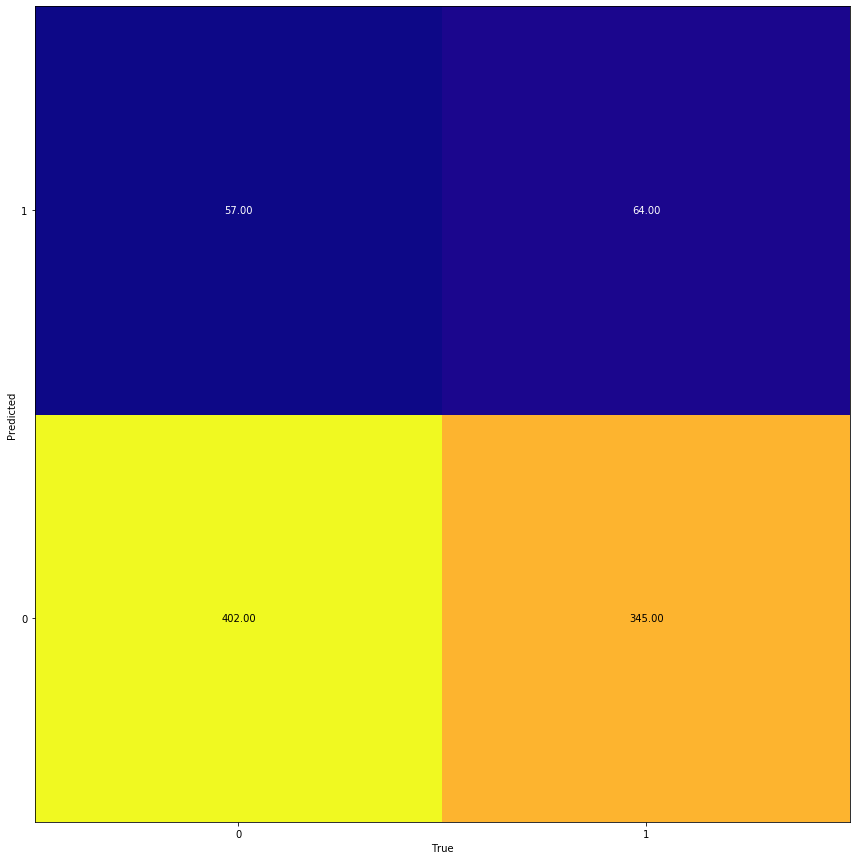
LogReg

R^2: 0.5368663594470046

recall\_score: 0.5368663594470046

f1\_score: 0.5368663594470046

accuracy\_score: 0.5368663594470046



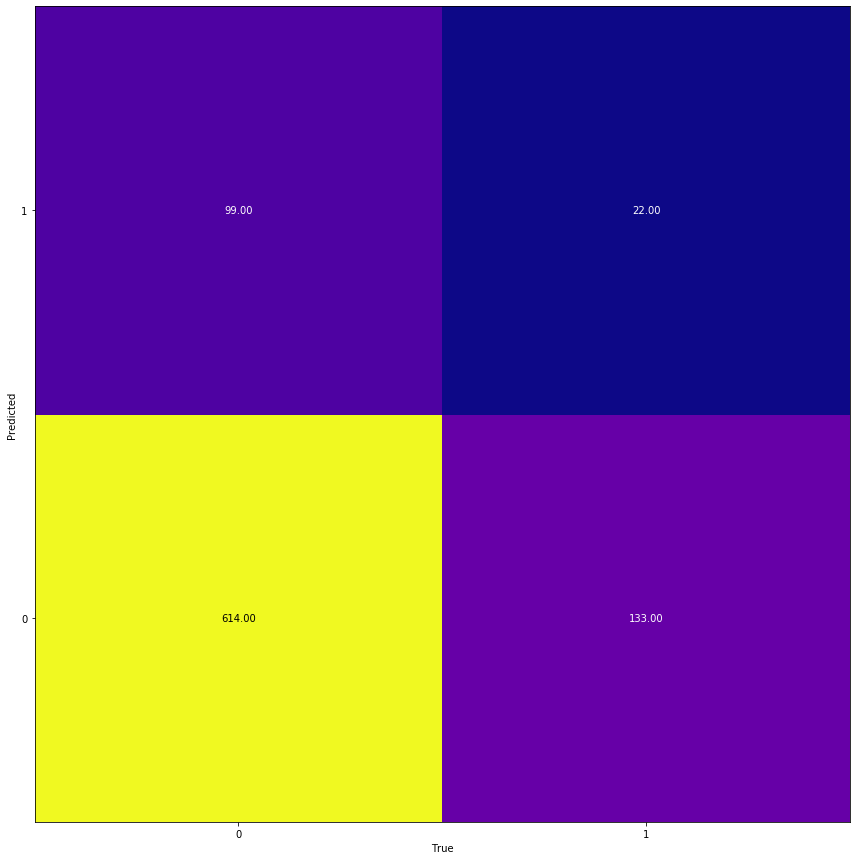
RND

R^2: 0.7327188940092166

recall\_score: 0.7327188940092166

f1\_score: 0.7327188940092166

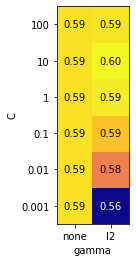
accuracy\_score: 0.7327188940092166



grid\_2\_res\_normal\_TF

{'C': 10, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 900}



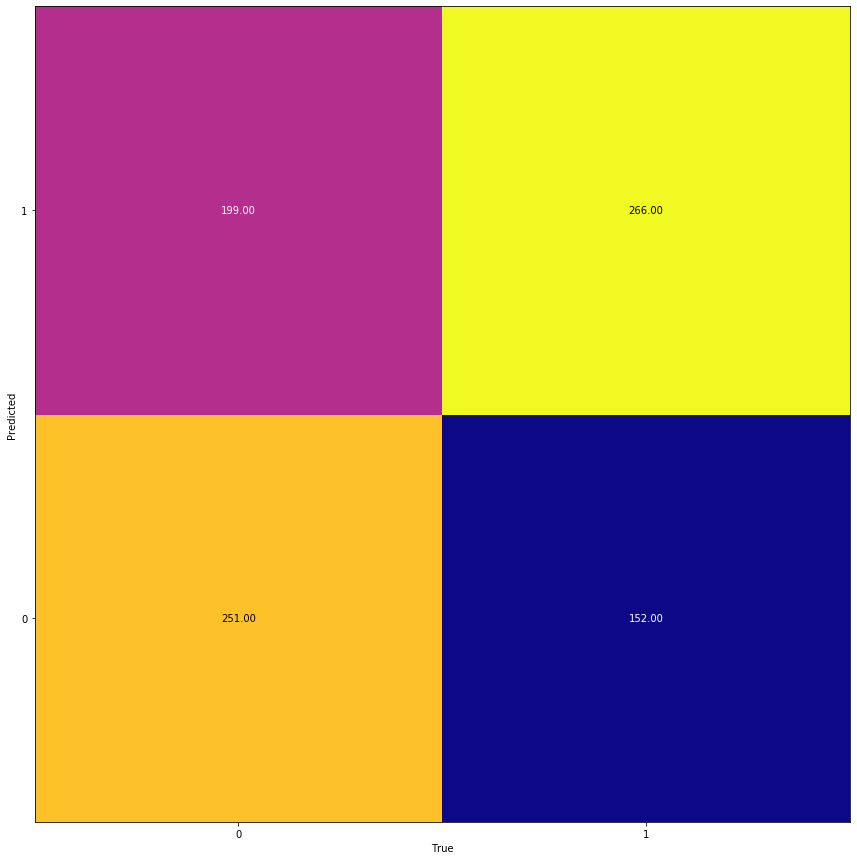
LogReg

R^2: 0.5956221198156681

recall\_score: 0.5956221198156681

f1\_score: 0.5956221198156681

accuracy\_score: 0.5956221198156681



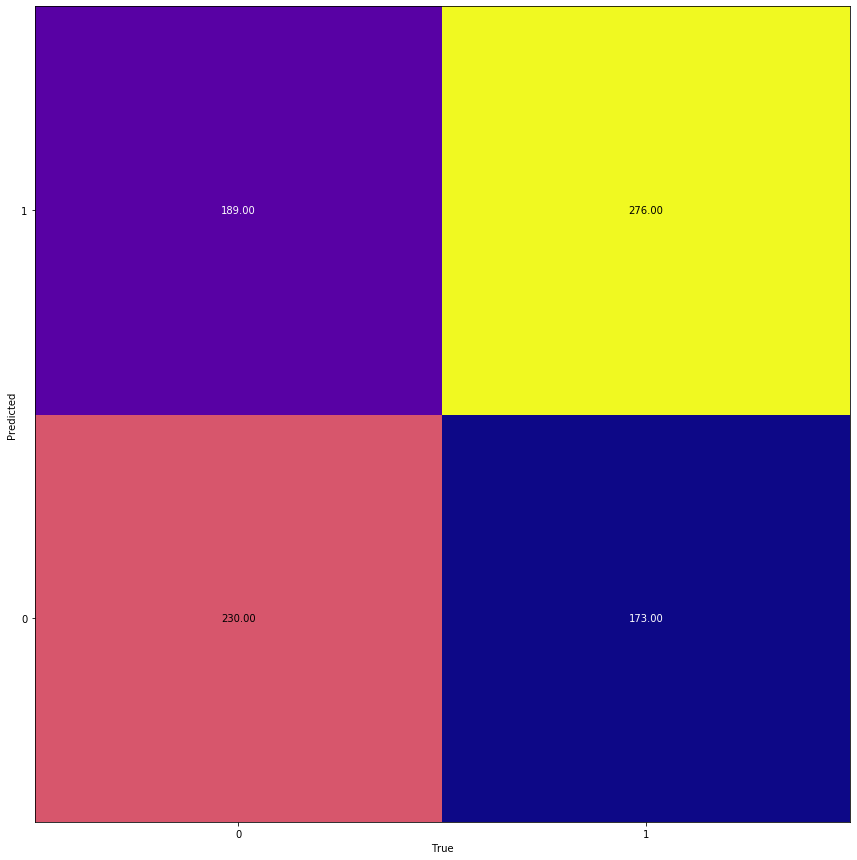
RND

R^2: 0.5829493087557603

recall\_score: 0.5829493087557603

f1\_score: 0.5829493087557603

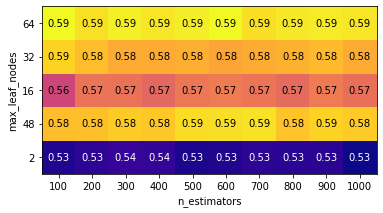
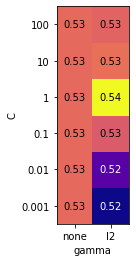
accuracy\_score: 0.5829493087557603



grid\_2\_res\_normal\_JP

{'C': 1, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 600}



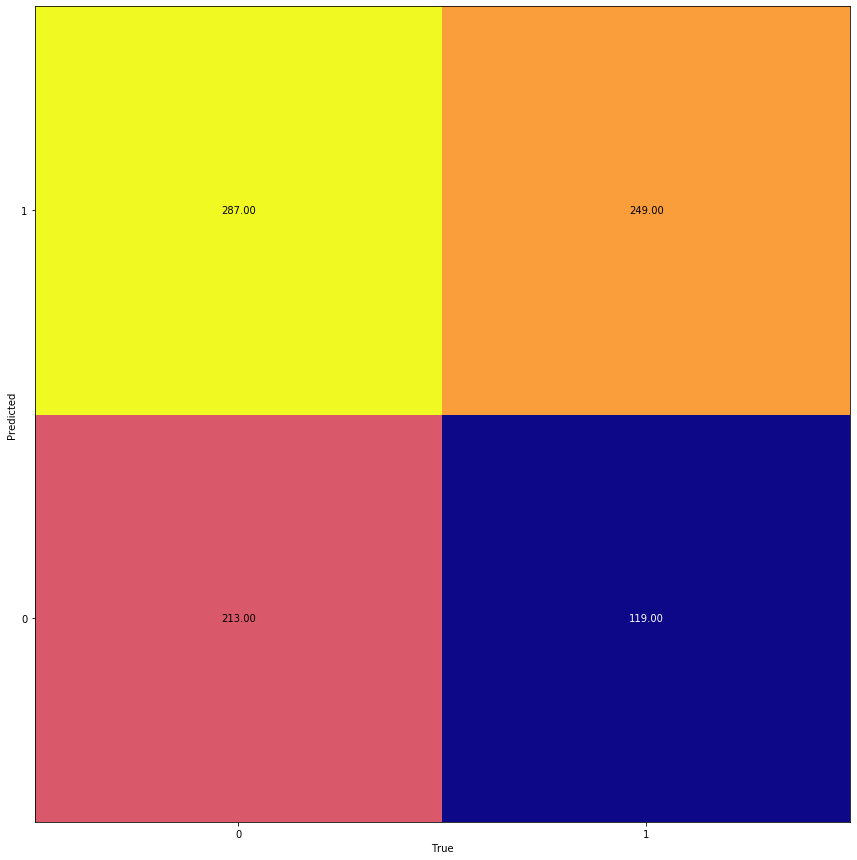
LogReg

R^2: 0.532258064516129

recall\_score: 0.532258064516129

f1\_score: 0.532258064516129

accuracy\_score: 0.532258064516129



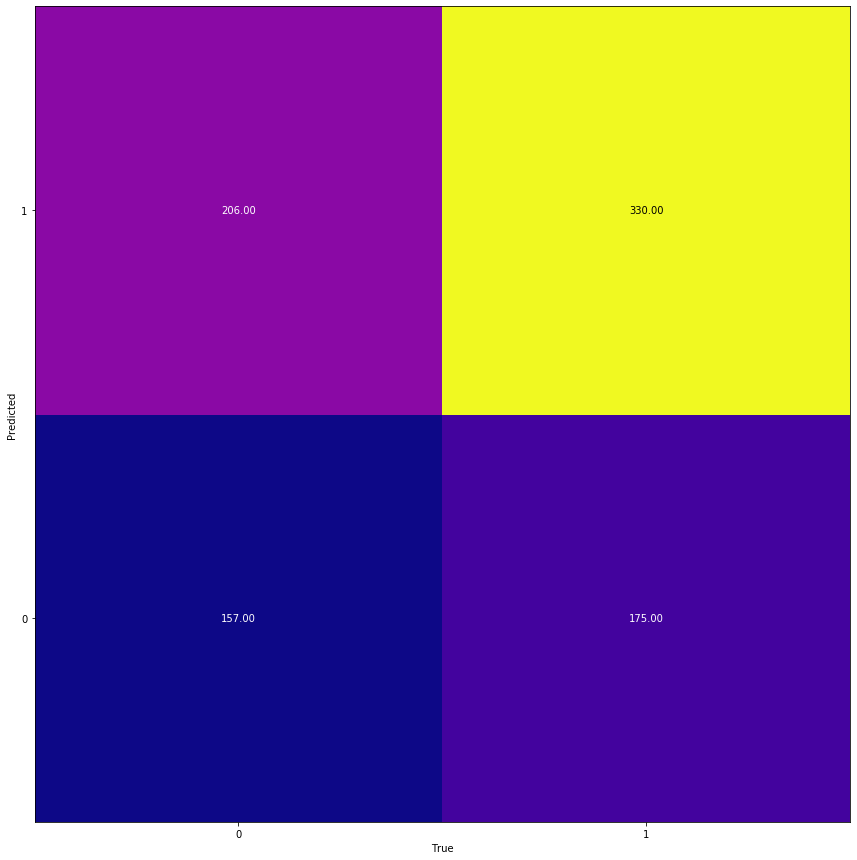
RND

R^2: 0.5610599078341014

recall\_score: 0.5610599078341014

f1\_score: 0.5610599078341014

accuracy\_score: 0.5610599078341014

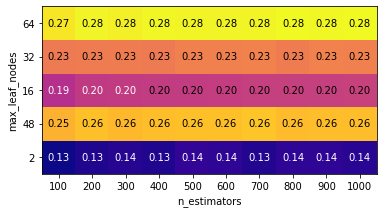
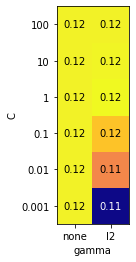


PCA

Resampling normalnie PCA

{'C': 1, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 1000}



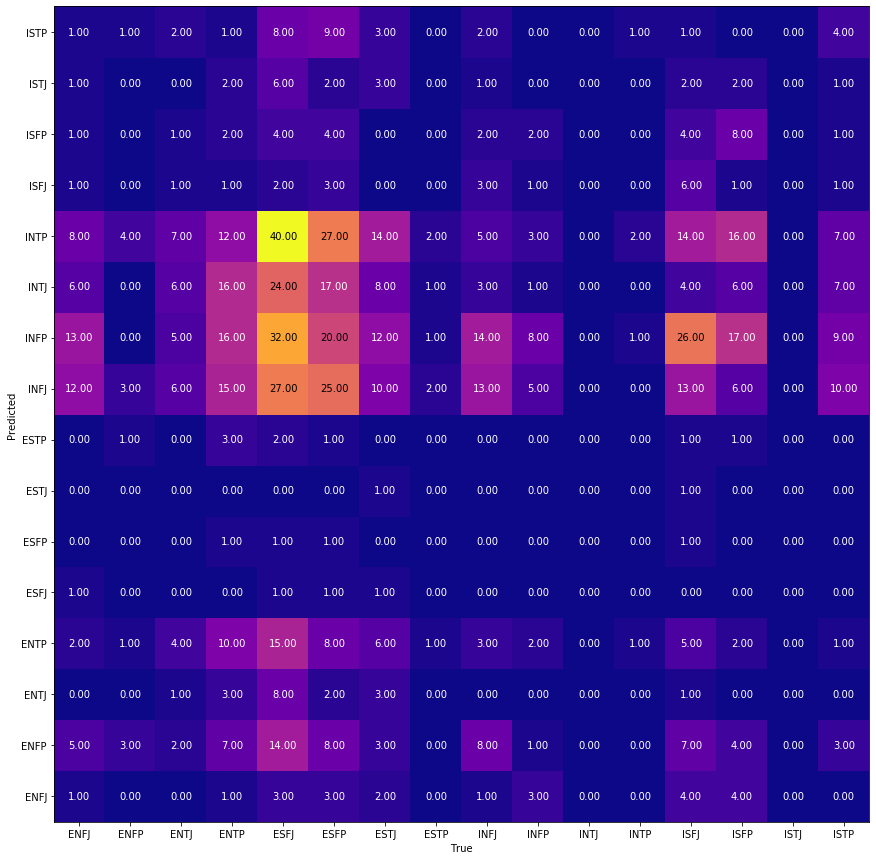
LogReg

R^2: 0.06797235023041474

recall\_score: 0.06797235023041474

f1\_score: 0.06797235023041474

accuracy\_score: 0.06797235023041474



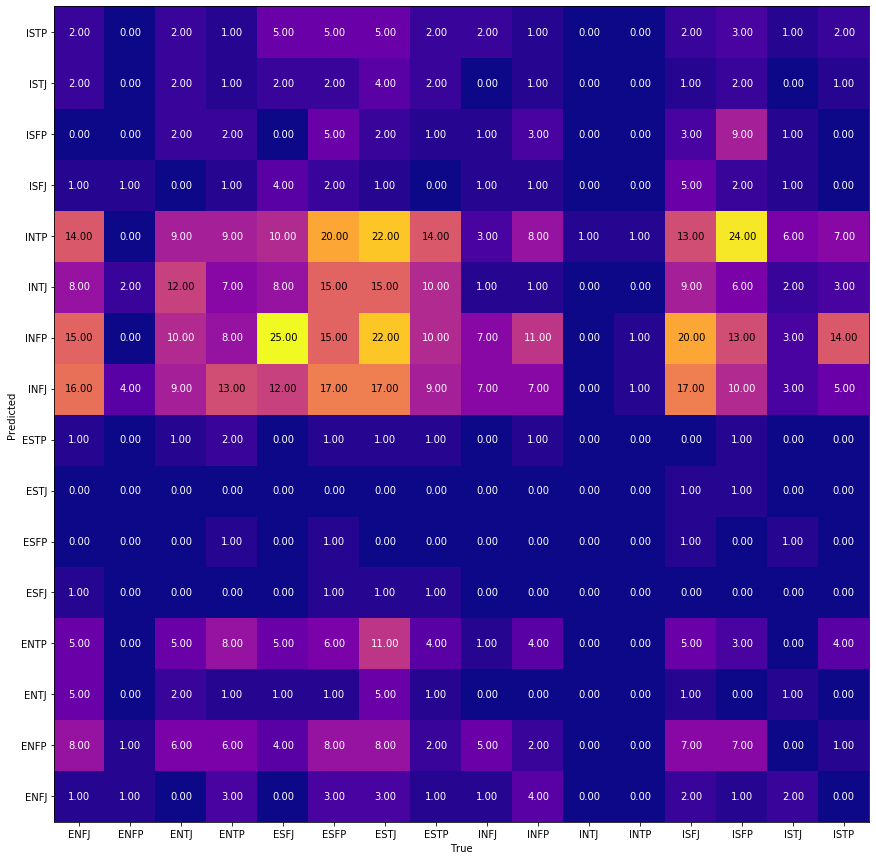
RND

R^2: 0.056451612903225805

recall\_score: 0.056451612903225805

f1\_score: 0.056451612903225805

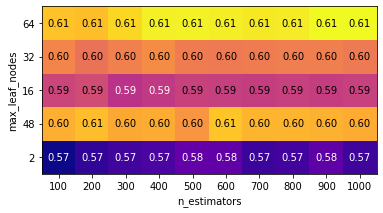
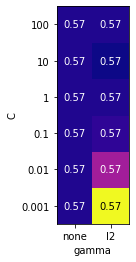
accuracy\_score: 0.056451612903225805



grid\_2\_res\_normal\_IE\_PCA

{'C': 0.001, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 900}



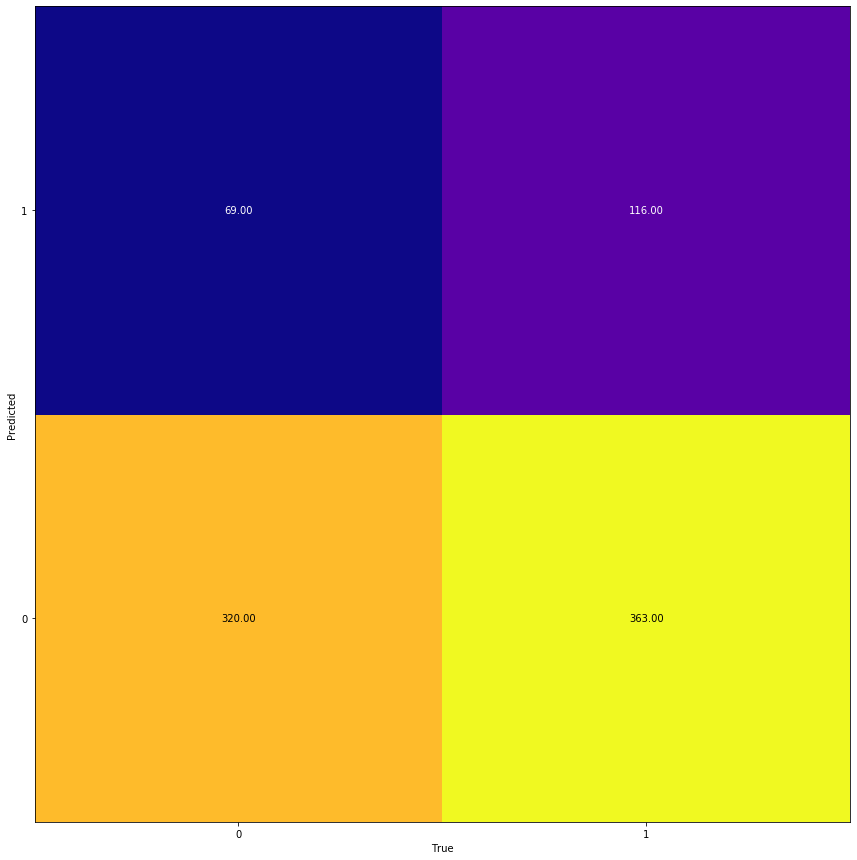
LogReg

R^2: 0.5023041474654378

recall\_score: 0.5023041474654378

f1\_score: 0.5023041474654378

accuracy\_score: 0.5023041474654378



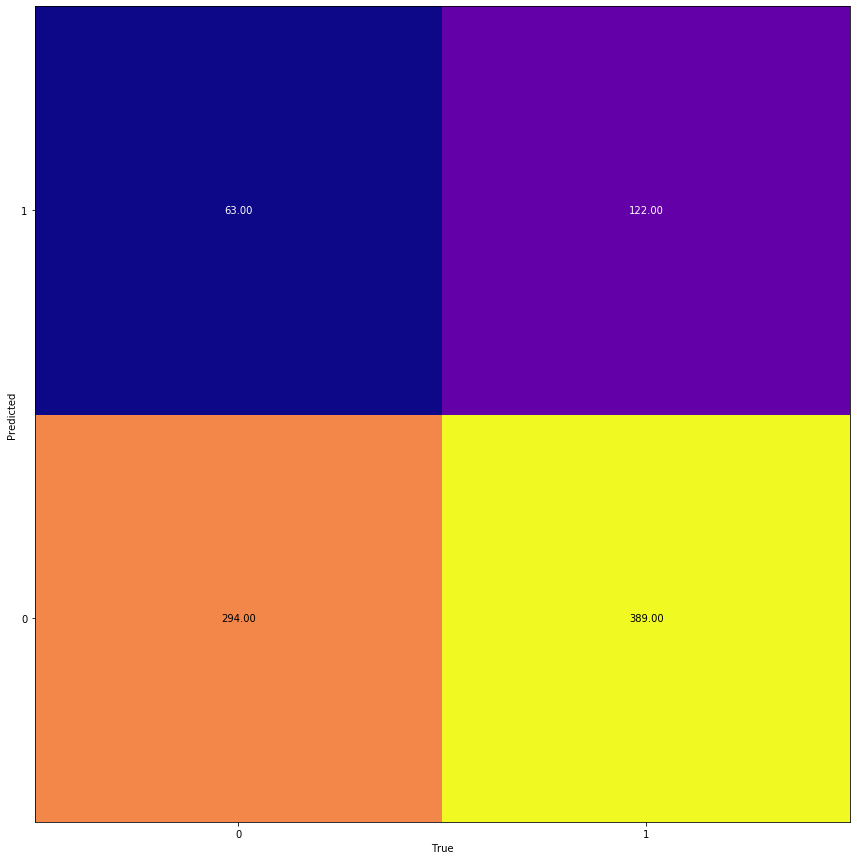
RND

R^2: 0.4792626728110599

recall\_score: 0.4792626728110599

f1\_score: 0.4792626728110599

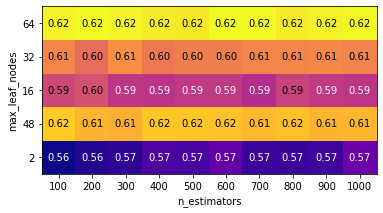
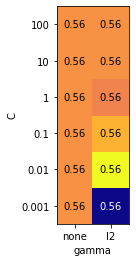
accuracy\_score: 0.4792626728110599



grid\_2\_res\_normal\_NS\_PCA

{'C': 0.01, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 200}



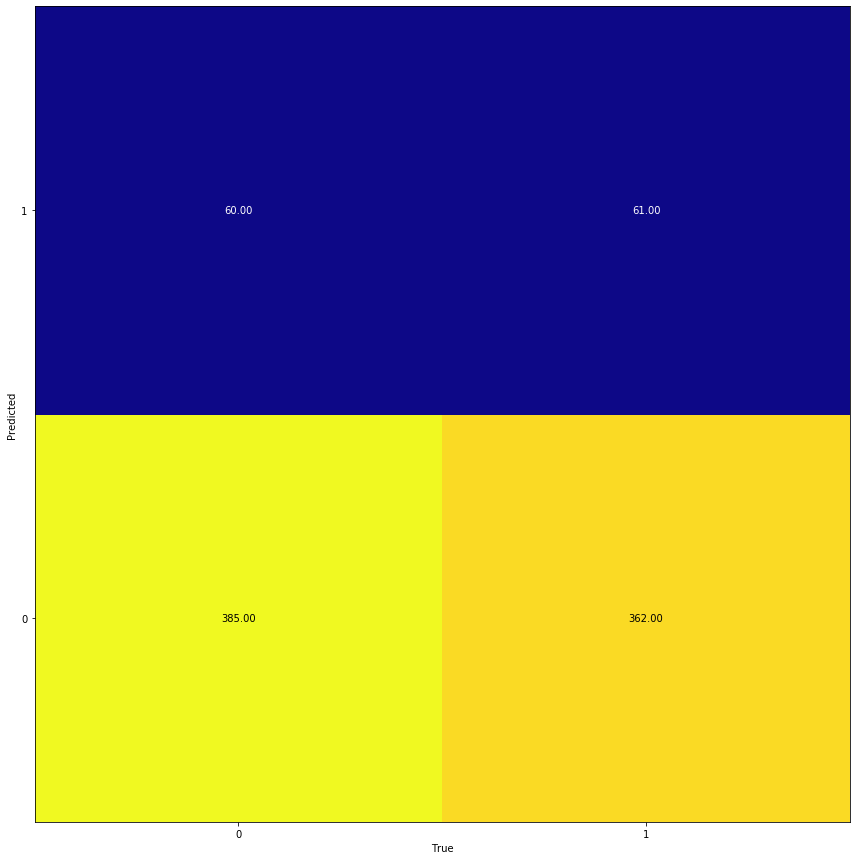
LogReg

R^2: 0.5138248847926268

recall\_score: 0.5138248847926268

f1\_score: 0.5138248847926268

accuracy\_score: 0.5138248847926268



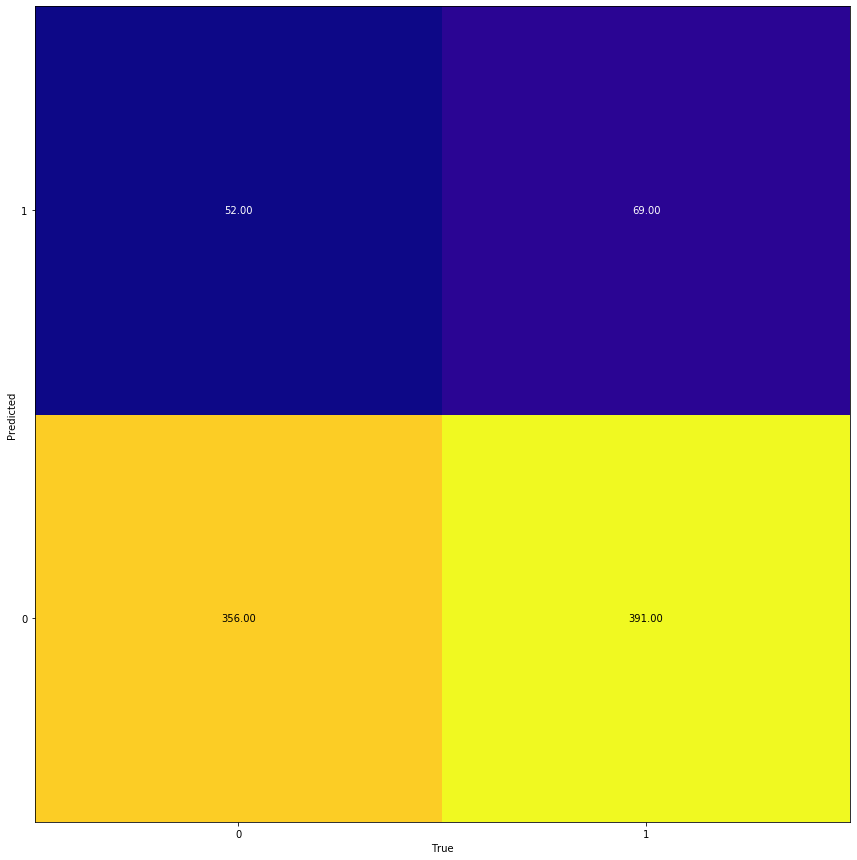
RND

R^2: 0.48963133640552997

recall\_score: 0.48963133640552997

f1\_score: 0.48963133640552997

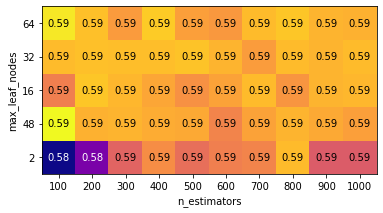
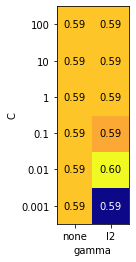
accuracy\_score: 0.48963133640552997



grid\_2\_res\_normal\_TF-PCA

{'C': 0.01, 'penalty': 'l2'}

{'max\_leaf\_nodes': 48, 'n\_estimators': 100}



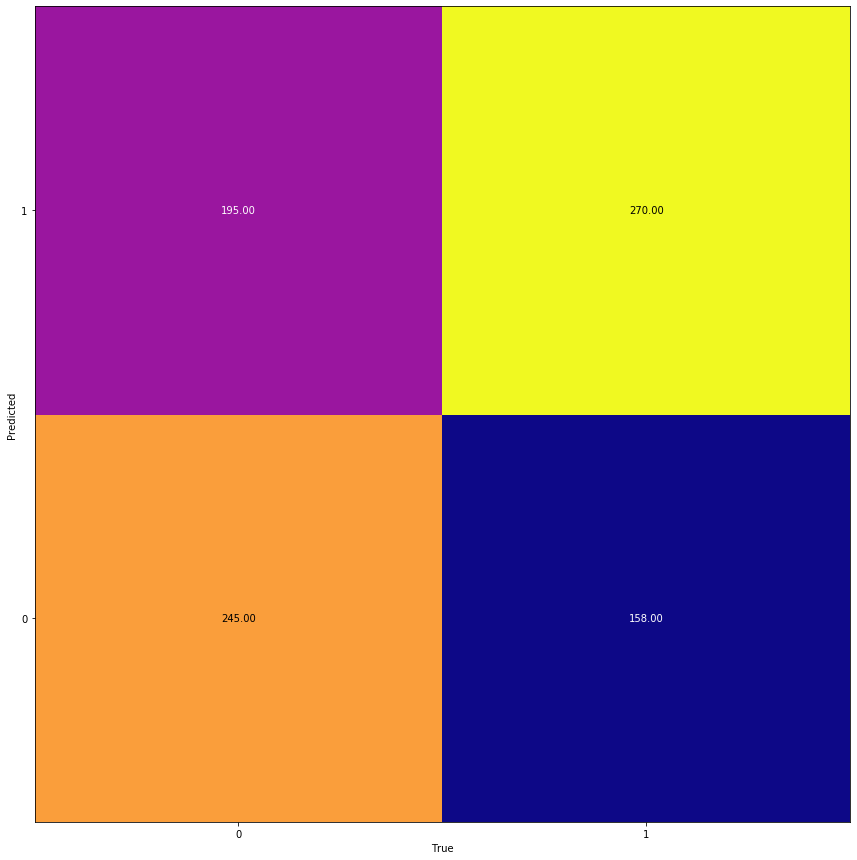
LogReg

R^2: 0.5933179723502304

recall\_score: 0.5933179723502304

f1\_score: 0.5933179723502304

accuracy\_score: 0.5933179723502304



RND

R^2: 0.5887096774193549

recall\_score: 0.5887096774193549

f1\_score: 0.5887096774193549

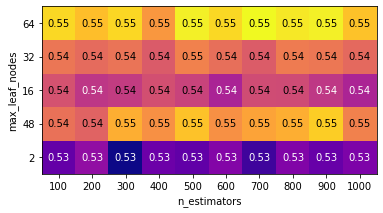
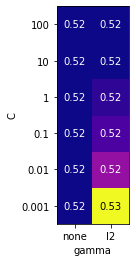
accuracy\_score: 0.5887096774193549



grid\_2\_res\_normal\_JP\_PCA

{'C': 0.001, 'penalty': 'l2'}

{'max\_leaf\_nodes': 64, 'n\_estimators': 700}



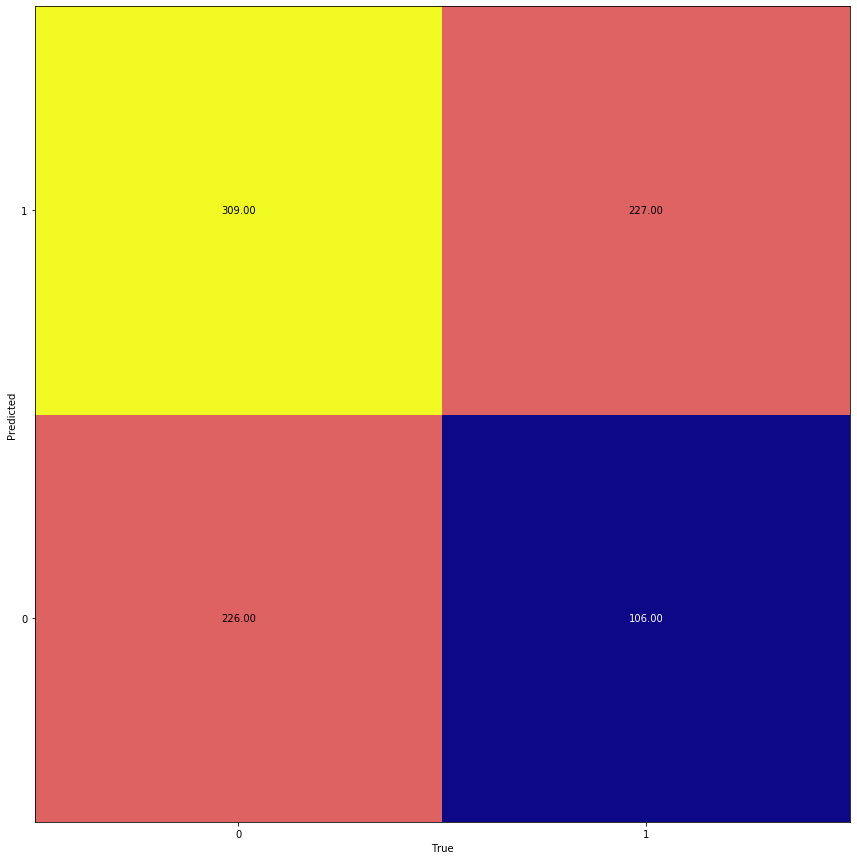
LogReg

R^2: 0.521889400921659

recall\_score: 0.521889400921659

f1\_score: 0.521889400921659

accuracy\_score: 0.521889400921659



RND

R^2: 0.5126728110599078

recall\_score: 0.5126728110599078

f1\_score: 0.5126728110599078

accuracy\_score: 0.5126728110599078

