Grid best parameter (max. AUC): {'n\_estimators': 200}

Grid best score (AUC): 0.7906662207804585

Grid best parameter (max. AUC): {'n\_estimators': 200, 'max\_depth': 4}

Grid best score (AUC): 0.7912309160880067

Grid best parameter (max. AUC): {'max\_depth': 6, 'n\_estimators': 100}

Grid best score (AUC): 0.7983544308688816

1. 5 features: Agency\_name, disposition, judgement\_amount, lat, lon

Your AUC of 0.800123786106 was awarded a value of 1.0 out of 1.0 total grades

1. Scala X, Xt

Your AUC of 0.800416246955 was awarded a value of 1.0 out of 1.0 total grades

1. Fillna with X.lan.mean(), X.lon.mean()

Your AUC of 0.7997781075 was awarded a value of 1.0 out of 1.0 total grades

1. 6 features: Agency\_name, disposition, judgement\_amount, lat, lon, date\_delta
2. Your AUC of 0.800078309376 was awarded a value of 1.0 out of 1.0 total grades
3. 6 features: xFeatures = ['agency\_name',

'disposition',

'judgment\_amount',

'lat','lon',

'violation\_code',

'compliance'

Your AUC of 0.805438619355 was awarded a value of 1.0 out of 1.0 total grades

ticket\_id

284932 0.045482

285362 0.011552

285361 0.054750

285338 0.061340

285346 0.065611

285345 0.058674

285347 0.078060

285342 0.761373

285530 0.018871

284989 0.028765

285344 0.079427

285343 0.021641

285340 0.021801

285341 0.081530

285349 0.068569

285348 0.061340

284991 0.028765

285532 0.018912

285406 0.023060

285001 0.035702

285006 0.022994

285405 0.013892

285337 0.020093

285496 0.054684

285497 0.051352

ticket\_id

284932 0.083038

285362 0.011485

285361 0.050828

285338 0.062860

285346 0.084565

285345 0.062860

285347 0.076623

285342 0.865194

285530 0.014179

284989 0.020857

285344 0.069131

285343 0.015381

285340 0.016922

285341 0.071007

285349 0.084565

285348 0.062860

284991 0.020857

285532 0.012142

285406 0.016264

285001 0.020403

285006 0.014532

285405 0.012516

285337 0.018334

285496 0.056085

285497 0.049221

285378 0.012185

285589 0.019865

285585 0.048589

285501 0.054151

285581 0.013418