decision tree

max depth is 40

[ 0. 0. 0. ..., 0. 0. 0.]

accuracy is 0.8743997487994976

error on not val 0.12555572466496312

error on val 0.1597542242703533

0.858523583878

max depth is 80

[ 0. 0. 0. ..., 0. 0. 0.]

accuracy is 0.8639657279314559

error on not val 0.1360253770917276

error on val 0.14285714285714285

0.862928303054

max depth is 120

[ 0. 0. 1. ..., 0. 0. 0.]

accuracy is 0.8861357722715445

error on not val 0.11382442705287694

error on val 0.1443932411674347

0.873325803022

max depth is 160

[ 0. 0. 0. ..., 0. 0. 0.]

accuracy is 0.8268856537713075

error on not val 0.1731537925454793

error on val 0.14285714285714285

0.844250592481

max depth is 200

[ 0. 0. 0. ..., 0. 0. 0.]

accuracy is 0.8277836555673111

error on not val 0.17225662263591723

error on val 0.141321044546851

0.843624876393

random forest

[ 0. 0. 0. ..., 0. 0. 0.]

accuracy is 0.9655419310838622

error on not val 0.03440886916539167

error on val 0.07219662058371736

0.9825366656

GradientBoostingClassifier

100 iterations

[ 0. 1. 1. ..., 0. 0. 0.]

accuracy is 0.9405558811117622

error on not val 0.059415477783029066

error on val 0.08141321044546851

0.978712831394

500 iterations

[ 0. 1. 1. ..., 0. 0. 0.]

accuracy is 0.9552099104198208

error on not val 0.044774385799082

error on val 0.05683563748079877

0.984002058808

1000 iterations

[ 0. 1. 1. ..., 0. 0. 0.]

accuracy is 0.919013838027676

error on not val 0.08102766006872962

error on val 0.04915514592933948

0.983936323319

LogisticRegression

[ 0. 1. 1. ..., 0. 0. 0.]

accuracy is 0.8928817857635716

error on not val 0.10709965795397199

error on val 0.12135176651305683

0.965352258669