Fitting 3 folds for each of 200 candidates, totalling 600 fits
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent
workers.
Model with rank: 1
Mean validation score: 0.729 (std: 0.040)
Parameters: {'colsample_bytree': 0.9255800778981816, 'gamma':
0.06540722555909753, 'learning_rate': 0.29207358723203314, 'max_depth': 14,
'n_estimators': 130, 'subsample': 0.8553755296294407}

Model with rank: 1
Mean validation score: 0.729 (std: 0.068)
Parameters: {'colsample_bytree': 0.86479801222136, 'gamma':
0.06954001196027947, 'learning_rate': 0.21997223247328815, 'max_depth': 2,
'n_estimators': 72, 'subsample': 0.9696256190933767}

[0]   validation_0-error:0.342105
Will train until validation_0-error hasn't improved in 5 rounds.
[Parallel(n_jobs=1)]: Done 600 out of 600 | elapsed: 58.4s finished
[1]   validation_0-error:0.210526
[2]   validation_0-error:0.184211
[3]   validation_0-error:0.210526
[4]   validation_0-error:0.210526
[5]   validation_0-error:0.263158
[6]   validation_0-error:0.210526
[7]   validation_0-error:0.236842
Stopping. Best iteration:
[2]   validation_0-error:0.184211

[0]   validation_0-error:0.289474
Will train until validation_0-error hasn't improved in 5 rounds.
[1]   validation_0-error:0.315789
[2]   validation_0-error:0.263158
[3]   validation_0-error:0.263158
[4]   validation_0-error:0.263158
[5]   validation_0-error:0.289474
[6]   validation_0-error:0.289474
[7]   validation_0-error:0.289474
Stopping. Best iteration:
[2]   validation_0-error:0.263158

[0]   validation_0-error:0.342105
Will train until validation_0-error hasn't improved in 5 rounds.
[1]   validation_0-error:0.289474
[2]   validation_0-error:0.315789
[3]   validation_0-error:0.315789
[4]   validation_0-error:0.289474
[5]   validation_0-error:0.342105
[6]   validation_0-error:0.236842
[7]   validation_0-error:0.289474
[8]   validation_0-error:0.315789
[9]   validation_0-error:0.315789
[10]   validation_0-error:0.342105
[11]   validation_0-error:0.315789
Stopping. Best iteration:
[6]   validation_0-error:0.236842

[0]   validation_0-error:0.421053
Will train until validation_0-error hasn't improved in 5 rounds.
[1]   validation_0-error:0.394737

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[2]     validation_0-error:0.342105
[3]     validation_0-error:0.368421
[4]     validation_0-error:0.368421
[5]     validation_0-error:0.342105
[6]     validation_0-error:0.315789
[7]     validation_0-error:0.342105
[8]     validation_0-error:0.289474
[9]     validation_0-error:0.342105
[10]    validation_0-error:0.315789
[11]    validation_0-error:0.289474
[12]    validation_0-error:0.315789
[13]    validation_0-error:0.289474
Stopping. Best iteration:
[8]     validation_0-error:0.289474

[0]     validation_0-error:0.342105
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.421053
[2]     validation_0-error:0.342105
[3]     validation_0-error:0.394737
[4]     validation_0-error:0.394737
[5]     validation_0-error:0.421053
Stopping. Best iteration:
[0]     validation_0-error:0.342105

[0]     validation_0-error:0.289474
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.210526
[2]     validation_0-error:0.210526
[3]     validation_0-error:0.184211
[4]     validation_0-error:0.210526
[5]     validation_0-error:0.184211
[6]     validation_0-error:0.157895
[7]     validation_0-error:0.184211
[8]     validation_0-error:0.210526
[9]     validation_0-error:0.157895
[10]    validation_0-error:0.184211
[11]    validation_0-error:0.184211
Stopping. Best iteration:
[6]     validation_0-error:0.157895

[0]     validation_0-error:0.184211
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.210526
[2]     validation_0-error:0.210526
[3]     validation_0-error:0.263158
[4]     validation_0-error:0.263158
[5]     validation_0-error:0.236842
Stopping. Best iteration:
[0]     validation_0-error:0.184211

[0]     validation_0-error:0.368421
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.315789
[2]     validation_0-error:0.289474
[3]     validation_0-error:0.289474
[4]     validation_0-error:0.289474
[5]     validation_0-error:0.315789
[6]     validation_0-error:0.315789
[7]     validation_0-error:0.315789
Stopping. Best iteration:
[2]     validation_0-error:0.289474
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[0]     validation_0-error:0.289474
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.157895
[2]     validation_0-error:0.131579
[3]     validation_0-error:0.131579
[4]     validation_0-error:0.105263
[5]     validation_0-error:0.105263
[6]     validation_0-error:0.131579
[7]     validation_0-error:0.131579
[8]     validation_0-error:0.157895
[9]     validation_0-error:0.131579
Stopping. Best iteration:
[4]     validation_0-error:0.105263

[0]     validation_0-error:0.394737
Will train until validation_0-error hasn't improved in 5 rounds.
[1]     validation_0-error:0.289474
[2]     validation_0-error:0.289474
[3]     validation_0-error:0.210526
[4]     validation_0-error:0.236842
[5]     validation_0-error:0.263158
[6]     validation_0-error:0.210526
[7]     validation_0-error:0.236842
[8]     validation_0-error:0.236842
Stopping. Best iteration:
[3]     validation_0-error:0.210526

best score: 0.210526, best iteration: 3, best ntree limit 4
[[14  3]
 [ 5 16]]


Scores: [0.45883147]
Mean: 0.459
Std: 0.000
[[12  5]
 [ 5 16]]


Scores: [0.45883147 0.51298918]
Mean: 0.486
Std: 0.027
[[11  5]
 [ 7 15]]


Scores: [0.45883147 0.51298918 0.56195149]
Mean: 0.511
Std: 0.042
[[14  8]
 [ 6 10]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698]
Mean: 0.535
Std: 0.055
[[ 9  9]
 [ 6 14]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086]
Mean: 0.554
Std: 0.062
```

```
[[12  5]
 [ 2 19]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086 0.42919754]
Mean: 0.533
Std: 0.073
[[12  4]
 [ 6 16]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086 0.42919754
 0.51298918]
Mean: 0.530
Std: 0.068
[[13  6]
 [ 5 14]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086 0.42919754
 0.51298918 0.53802759]
Mean: 0.531
Std: 0.064
[[12  2]
 [ 3 21]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086 0.42919754
 0.51298918 0.53802759 0.36273813]
Mean: 0.512
Std: 0.080
[[17  3]
 [ 5 13]]


Scores: [0.45883147 0.51298918 0.56195149 0.60697698 0.62828086 0.42919754
 0.51298918 0.53802759 0.36273813 0.45883147]
Mean: 0.507
Std: 0.078
Acertos Over 2.5: 154/204 - 75.49%
Acertos Under 2.5: 126/176 - 71.59%
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In [103]: