

### Change Bagging Parameter:

n_estimators	accuracy
5	0.9473684210526315
10	0.956140350877193
50	0.956140350877193

### If we change max\_sample :

max_sample=0.5	0.956140350877193
max_smaple=1	0.6228070175438597

### Modify AdaBoost:

learning rate	result
0.1	0.956140350877193
0.5	0.956140350877193
1.0	0.956140350877193

### If we change the number of estimators :

n_estimators	result
20	0.956140350877193
100	0.956140350877193

# Summery

Methods	Accuracy
Bagging	Average but stable performance. works excellently, increasing the number of trees results in greater stability.
Boosting	Often the highest accuracy, especially when the learning_rate is appropriate. However, it is sensitive to variables.
Stacking	It can outperform everyone if the base_models + final_estimator are chosen well, but it can over-fit and overlearn.