

# Adaboost

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## **Adaboost: adaptive boosting**

boosting: combine weak learners to strong learner

ensemble machine learning methods: bagging/boosting/stacking

bagging: reduce variance, bootstrap aggregation

boosting: reduce bias, sequence of weak learners

stacking: good

Adaboost: base learner can be any learner accepting weighted sample

- weights for samples
- weights for classifiers

con: sensitive to noise / outliers, slower than XGBoost