BOOSTING ALGORITHM - REGRESSION

Ada Boost

XG Boosting

LG Boosting

ADABOOST - SEQUENTIAL LEARNING

An AdaBoost regressor is a meta-estimator that begins by fitting a regressor on the original dataset and then fits additional copies of the regressor on the same dataset but where the weights of instances are adjusted according to the error of the current prediction.

Purpose of AdaBoost

• improve binary classification performance

 improves prediction accuracy by combining multiple "weak" classifiers into a strong classifier

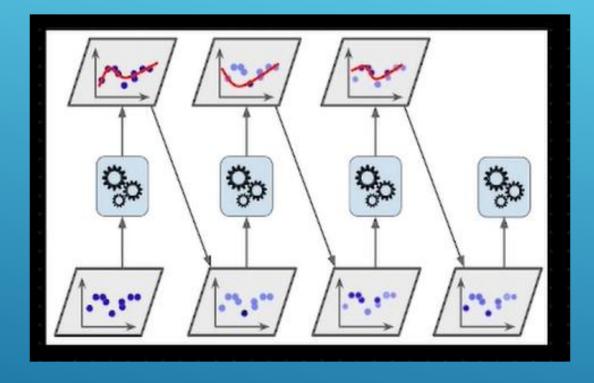
• focusing on misclassified data points in each iteration

Applications of AdaBoost

- face detection
- object recognition
- text classification

 AdaBoost can also be used in other areas of machine learning, such as regression and clustering

Misclassified data points transfer into another model



Final model – strong learner (Combination of various week learners)

