### BOOSTING ALGORITHUM

why boosting algorithum?

To increase the predictive accuracy during training

#### The Process of Boosting testing Subset Weak False Learner prediction training **Training** Subset Weak False prediction Learner Subset Weak Overall Learner Prediction

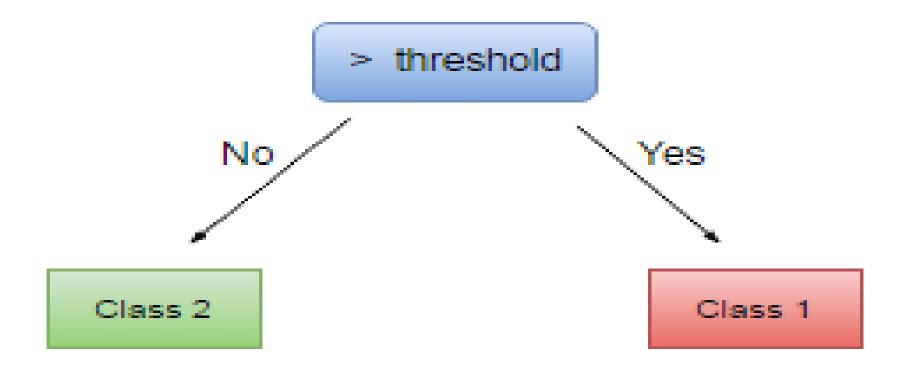
## Types of boosting algorithum:

Adaboosting XG boosting LG boosting

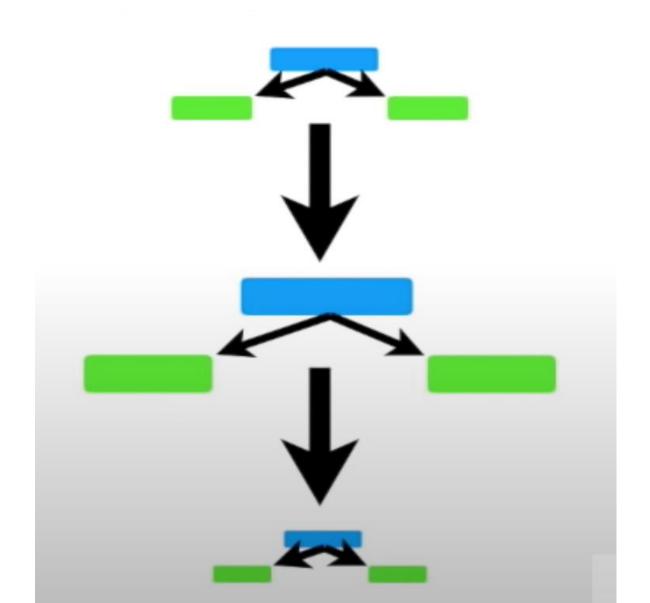
# 1. Adaboosting:

maximum depth is one node and one leave is called as stump.

Ada boost combines lot of week learners

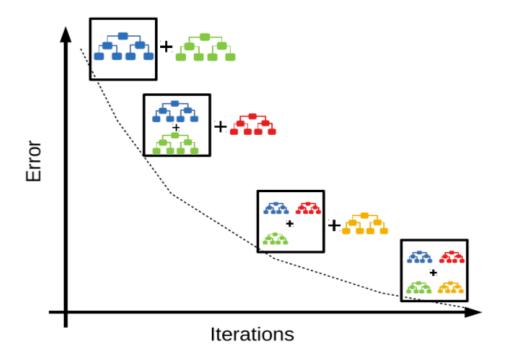


Each stump is made by taking the previous mistakes into account.



# 2. XG boosting:

it well train multiple decision tree then combine the result



# 3. LGboosting

### Leaf-wise tree growth

