

Abdul Raffy

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Ensemble learning

Group of prediction algorithms.

Multiple experts give output then ensemble it and vote out the best.

Computational cost increase



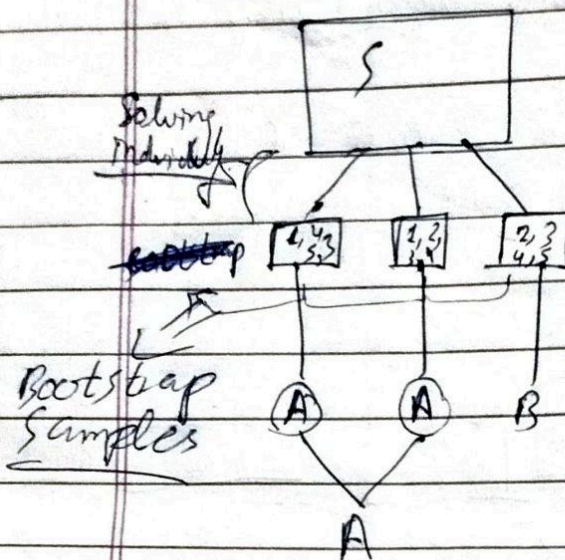
Weak learners algo
combine to for
Ensemble learning

- 1) Bootstrap aggregating / Bagging
- 2) Boosting
- 3) Stacking
- 4) Voting

Best example Random Forest as it
ensembles multiple decision
trees.

Ensemble learning

Bagging

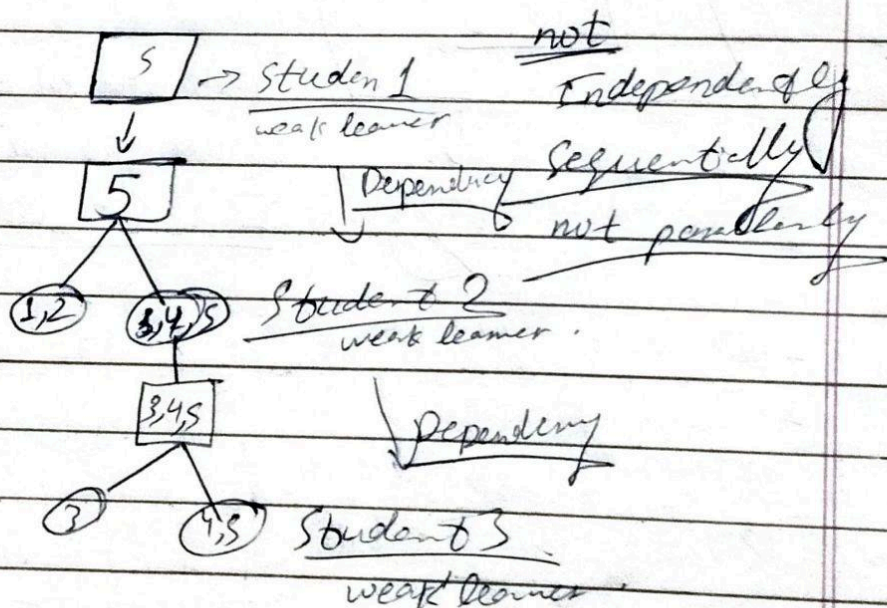


Because we gave random samples to different models like Logistic regression, random forest etc.

A teacher give random problem to three students from

problem 1 to S with replacement and repetition.

Boosting



The problem given to 1 student his 1 and 2 prediction were according to actual data but 3, 4, 5 were not so they were given 1, 2

Stacking

Make both bagging and boosting
in use!

