

# BOOSTING

ALGORITHM  
IN  
REGRESSION

# AGENDA

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D/b Bosting Algorithms and Other Tree Algorithms

Ada Boosting Regressor

XG Boosting Regressor

LG Boosting Regressor

Final tips & takeaways



# D/B BOOSTING ALGORITHMS AND OTHER TREE ALGORITHMS

## Other Tree Algorithms

Full sized tree

Good learners

No Weight priority

Different Individual  
Trees

## Boosting Algorithms

Stump

Weak Learners

Weight priority

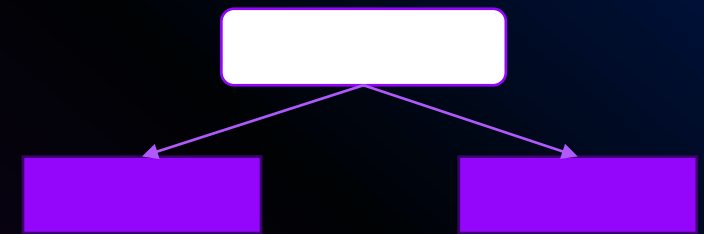
Transfer the error  
to the next stump

# ADA BOOSTING REGRESSOR ALGORITHM

# ADAM BOOSTING ALGORITHM IN ML

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- Adaptive Boosting Algorithm
  - Its widely used for Decision Trees
- It also used for Random forest Algorithm
  - It combines a multiple weak learners to create a strong learner
- They use weighted average and vote for prediction

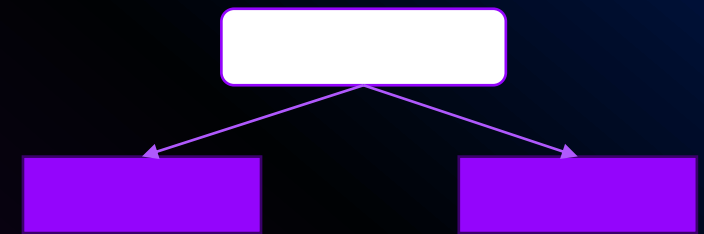


# XG BOOSTING REGRESSOR ALGORITHM

# XG BOOSTING ALGORITHM IN ML

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- Extreme Gradient Boosting
- It can handle missing values in efficient manner
- It supports the parallel processing
- It can be used to train models on a large dataset
- They are customizable and allows fine tuning for optimized performance





# THANK YOU

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