



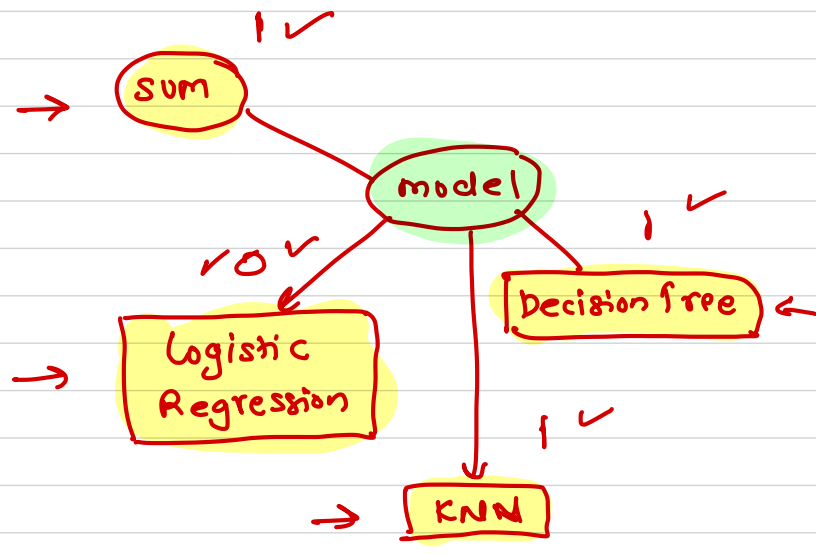
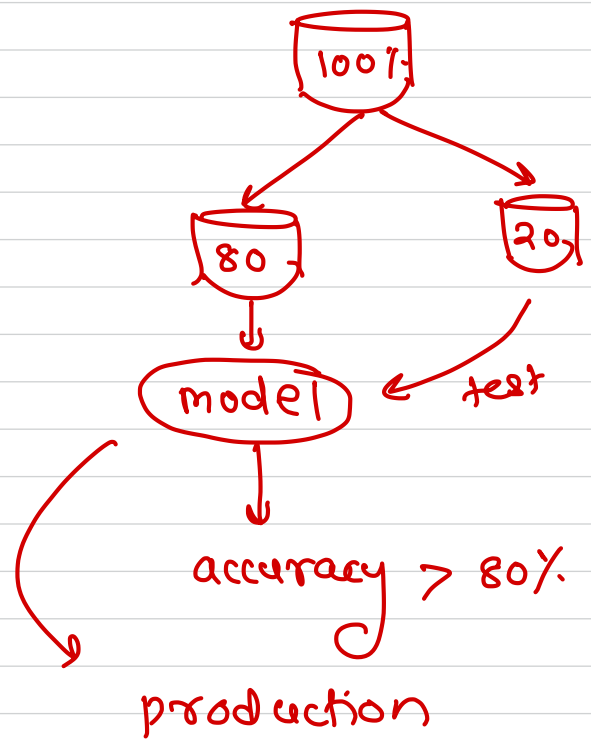
Machine Learning



Ensemble Learning



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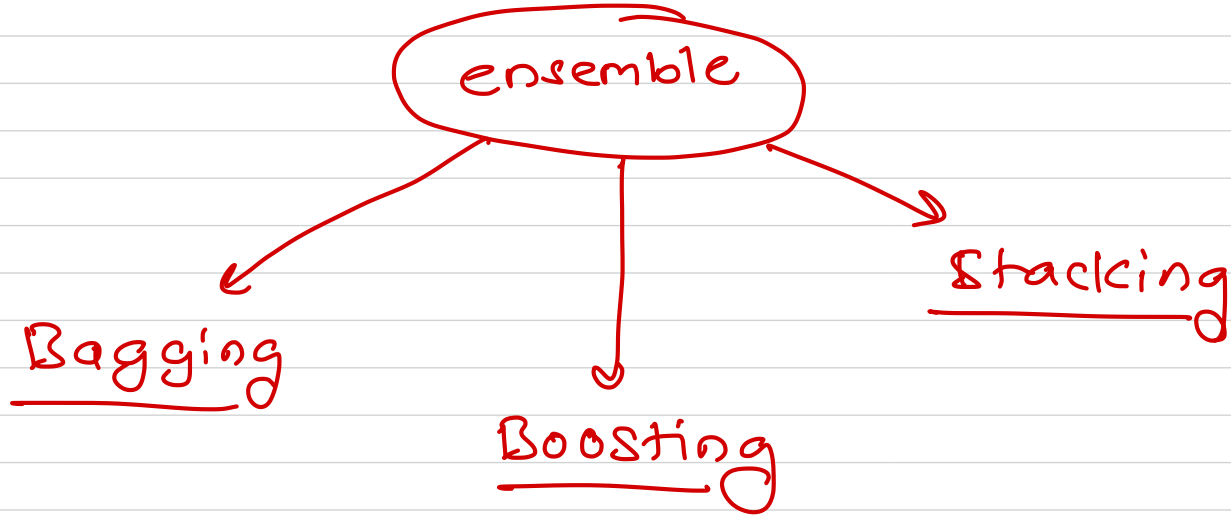


Overview

models

- Ensemble is the art of combining diverse set of learners (individual models) together to improvise on the stability and predictive power of the model
- Primarily used to improve the (classification, prediction, function approximation, etc.) performance of a model, or reduce the likelihood of an unfortunate selection of a poor one
- Other applications of ensemble learning include assigning a confidence to the decision made by the model, selecting optimal (or near optimal) features, data fusion, incremental learning, nonstationary learning and error-correcting





Bagging

same models

- Bagging tries to implement similar learners on small sample populations and then takes a mean of all the predictions
- In generalized bagging, you can use different learners on different population
- This helps us to reduce the variance error
- Algorithm
 - Random Forest

