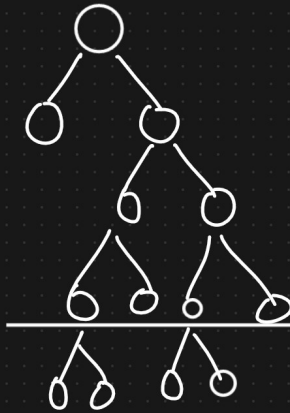


Bagging And Boosting

- ① Random Forest Classifier
- ② Random Forest Regressor

Decision Tree



Overfitting

Low Bias

High Variance

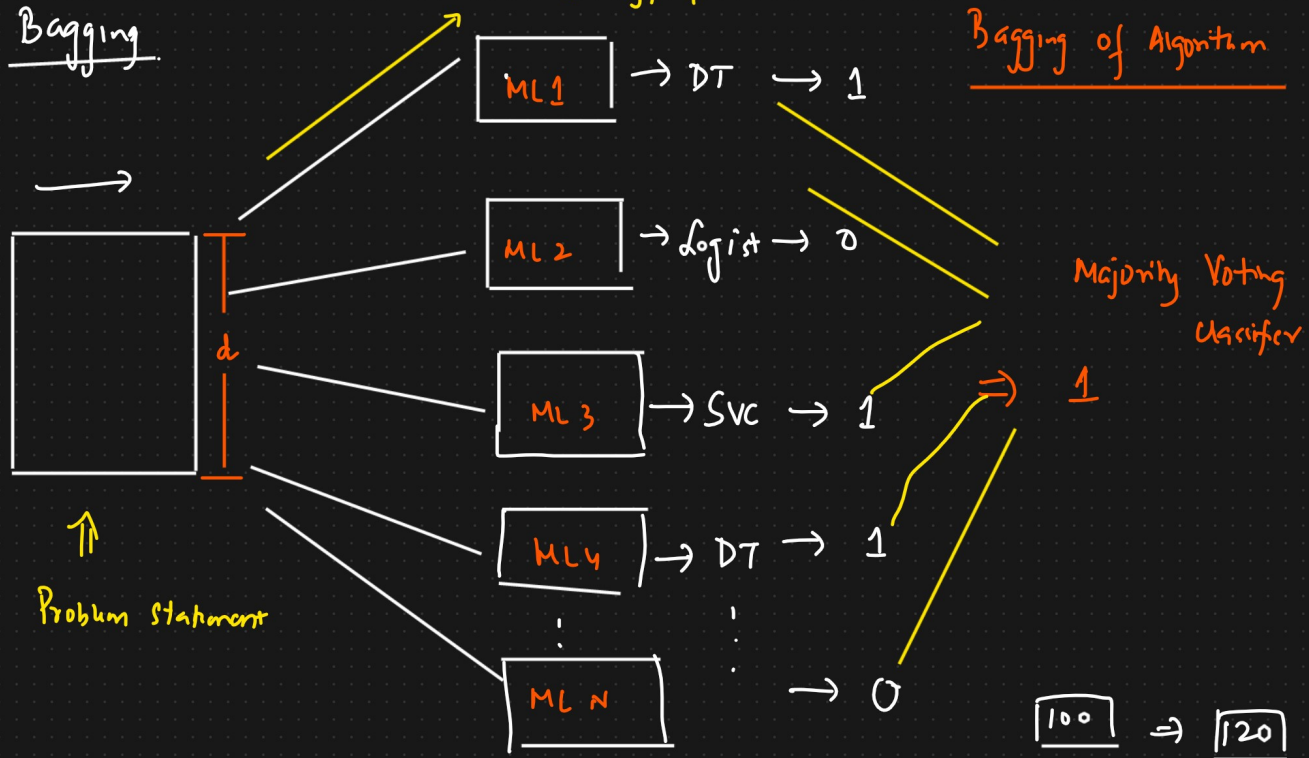
↑
Prepruning
⇒
Post pruning

Bagging And Boosting

[Ensemble Techniques]

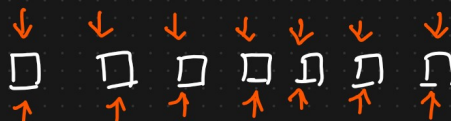
Bootstrap Aggregation

① Bagging



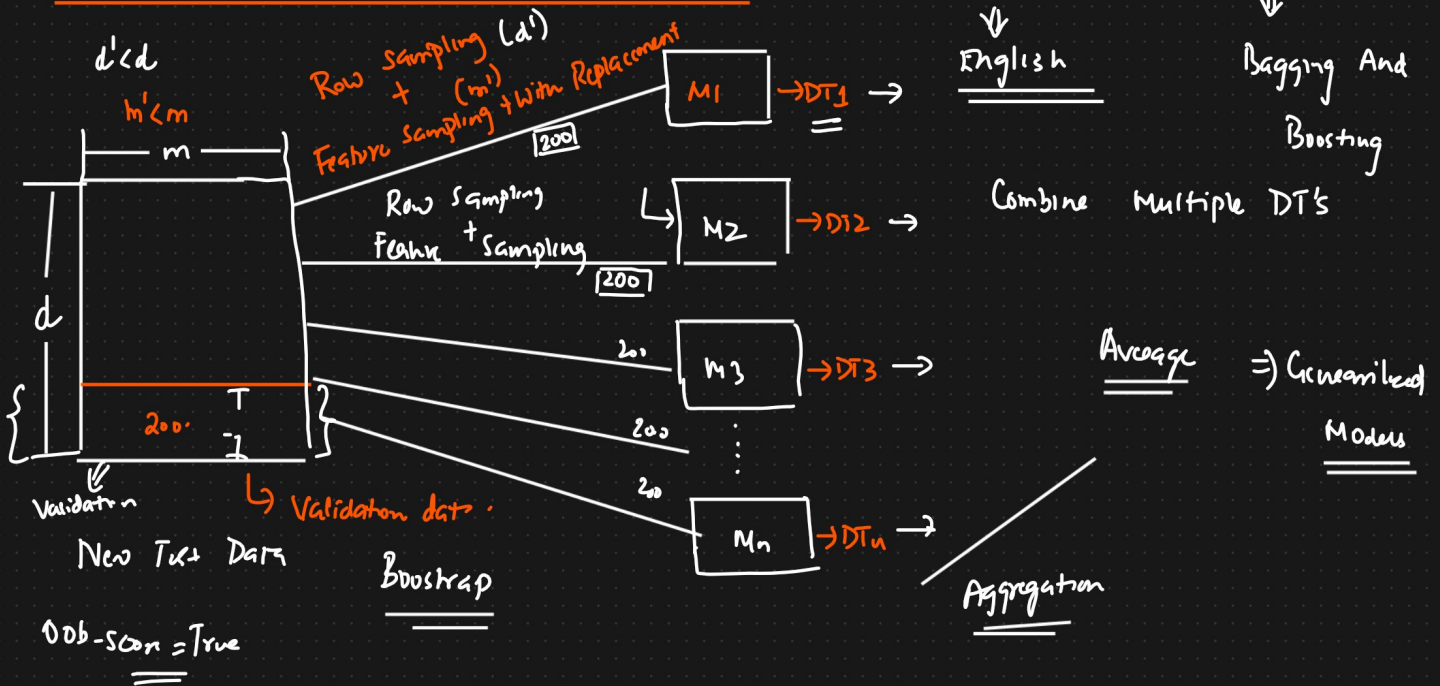
KBC : Karm Banea Crorepati [Amitabh Bachan]

{ KRISH → DATA SCIENCE
UPSC → Diversified



Random Forest CLASSIFICATION And Regression

⇒ Ensemble Technique

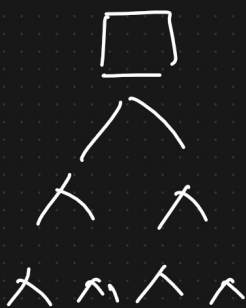


DT1 ⇒ Overfitting ⇒ Pruning or Post Pruning ⇒ Choresome Task

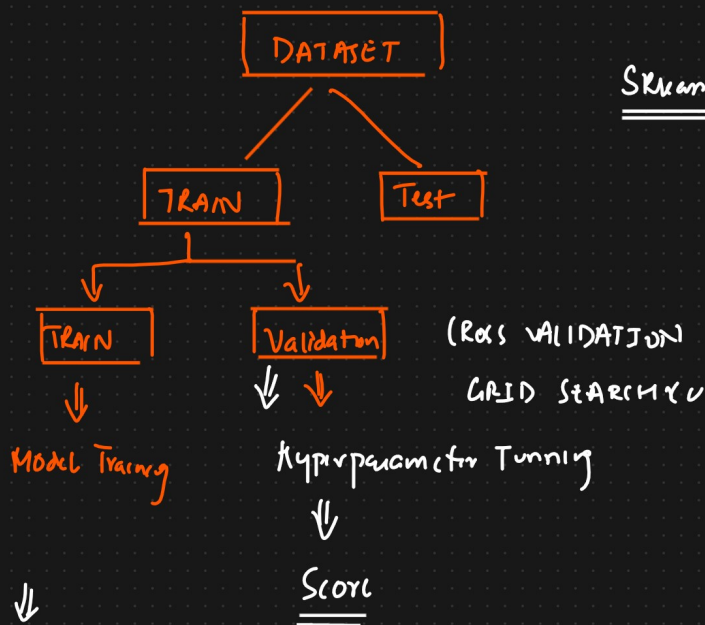
- ✓ ① Low Bias → Training
- ✓ ② High Variance → Low Variance

Ob-score = TRUE

Stream



Out of Bag Evaluation



$$\text{Ob-score} = 83\%$$

Accuracy validation

Out of Bag Error

$$1 - \text{Ob-score} = 1 - 83 = 0.17\% \quad \{\text{validation Error}\}$$