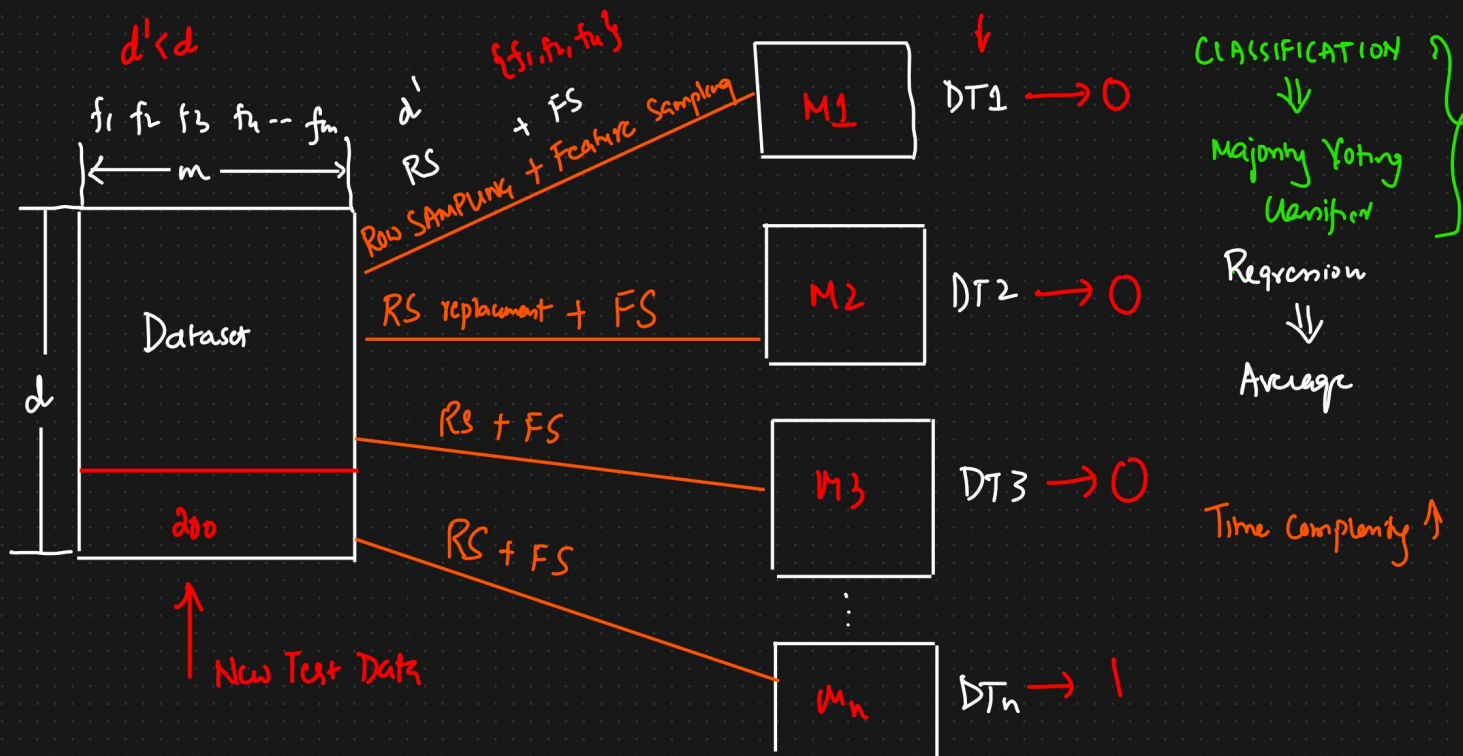


Random Forest CLASSIFICATION AND REGRESSIONS



CLASSIFICATION - MAJORITY VOTING CLASSIFIER

REGRESSION - Average O/P of the Models.

Why should we use Random Forest instead of DT?

Decision Tree

Generalized Model \rightarrow Low Bias
 \rightarrow Low Bias

Overfitting

Random Forest

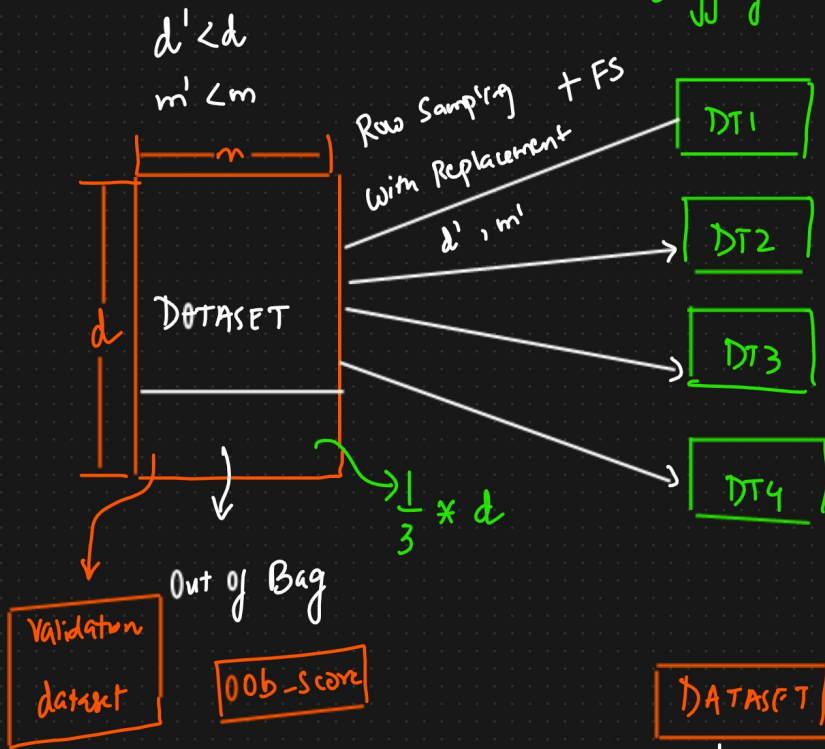
Train Acc $\uparrow \rightarrow$ Low Bias \rightarrow Low Bias

Test Acc $\downarrow \rightarrow$ High Variance \rightarrow Low Variance

Out of Bag Evaluation (Random Forest)

Out of Bag score?

Bagging



SKlearn

Oob = TRUE

$\Downarrow \Downarrow$
[Oob Score] \Rightarrow Percentage
 \Downarrow
Validation of Out of Bag DATA

