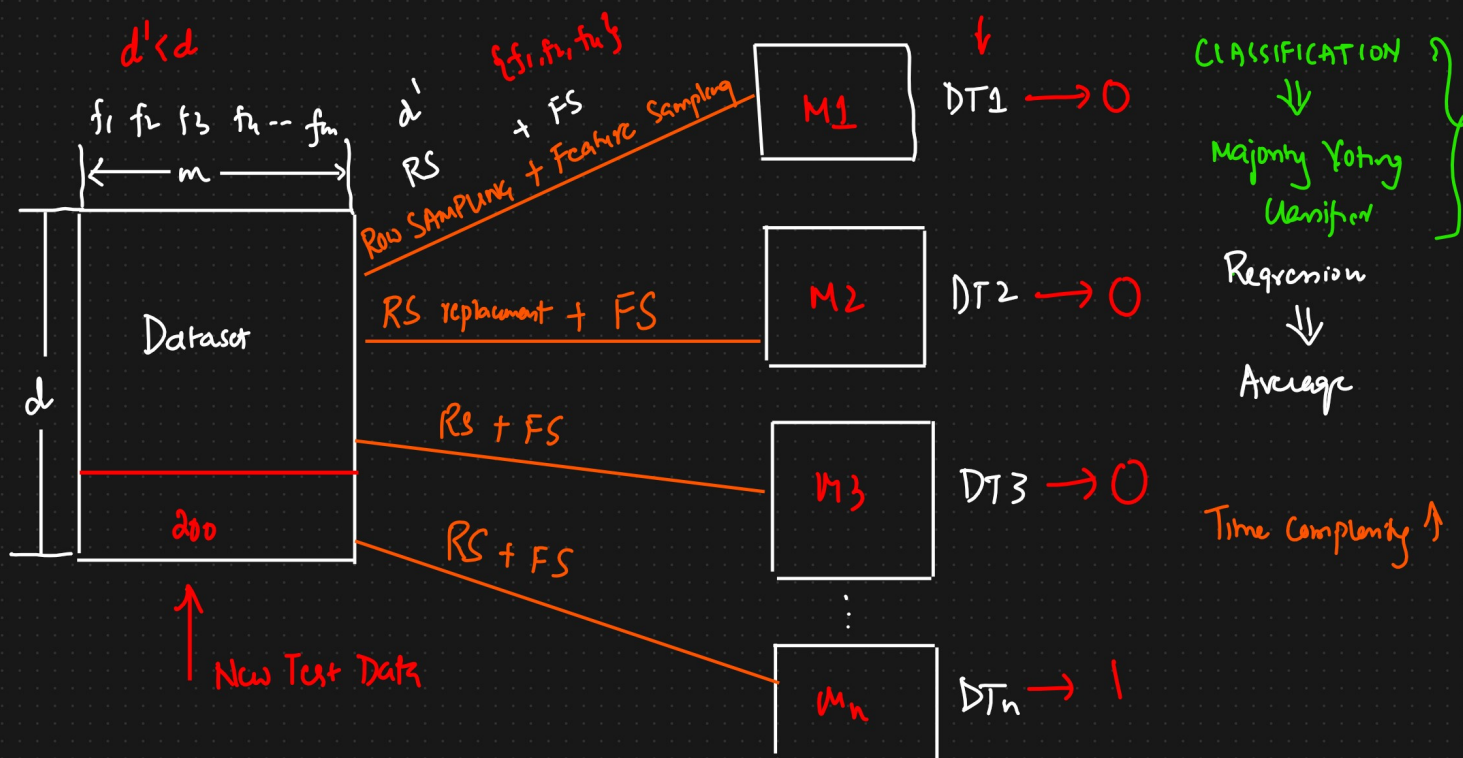


Random Forest CLASSIFICATION AND REGRESSIONS



CLASSIFICATION - MAJORITY VOTING CLASSIFIER

REGRESSION - Average O/P of the Models.

Why should we use Random Forest instead of DT?

Decision Tree

Generalized Model $\begin{cases} \rightarrow \text{Low Bias} \\ \rightarrow \text{Low Bias} \end{cases}$

Overfitting

Random Forest

Train Acc ↑ \rightarrow Low Bias \rightarrow Low Bias

Test Acc ↓ \rightarrow High Variance \rightarrow Low Variance