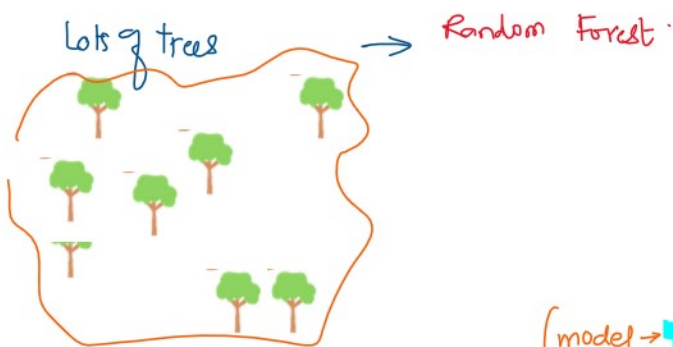




Random Forest



Tree → Decision Tree.



job → (learning)

(model → learner)

a technique that combines multiple individual model (DT) to improve the overall predictive performance or stability of the system

Random Forest: It is an ensemble learning algo. that constructs many decision trees during the training.

more accurate
and robust predictions.

Pros of RF model:

- # Robustness: stable model, less sensitive to noise and overfitting compared to individual DT.
- # High Accuracy: Typically RF model achieves higher accuracy compared to DT.
- # Feature Importance: RF model provides the ranking of features which can help in feature selection and interpretation.

RF can be applied to both regression and classification problems.

- 1
- $n \log m$