# Random Forest Algorithm

Random Forest Algorithm is a supervised machine learning algorithm that can be used for both classification and regression problems but, mostly used for classification problems. It is based on the concept of ensemble learning.

Ensemble Learning: It is a process of combining multiple classifiers to solve a complex problem and improve the performance of the model.

Working of Random Forest Algorithm:

- Select the training set.
- Construct a decision tree for each sample and perform the fit and prediction method.
- Perform a vote for each predicted sample.
- Select the prediction results with the most votes as the final prediction.

GitHub link: https://github.com/AmeenUrRehman/Machine-Learning-Projects/tree/up-pages/Random%20Forest%20Classifier
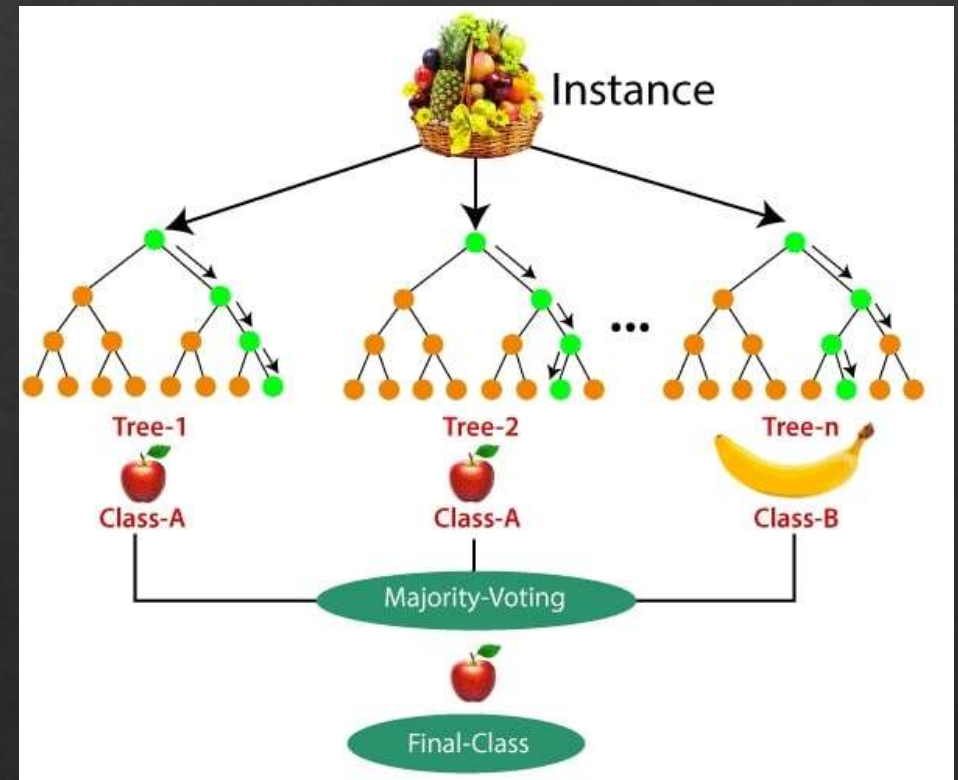
## Advantages:

- It is capable of performing both classification and regression tasks.
- It is capable of handling large datasets with high dimensionality.

## Disadvantages:

- It is not more suitable for regression tasks.
- It is comparatively slower than the decision tree.

## Applications of Random Forest:

- Banking.
- HealthCare.
- Stock Market.
- E-Commerce.



Source = JavaPoint