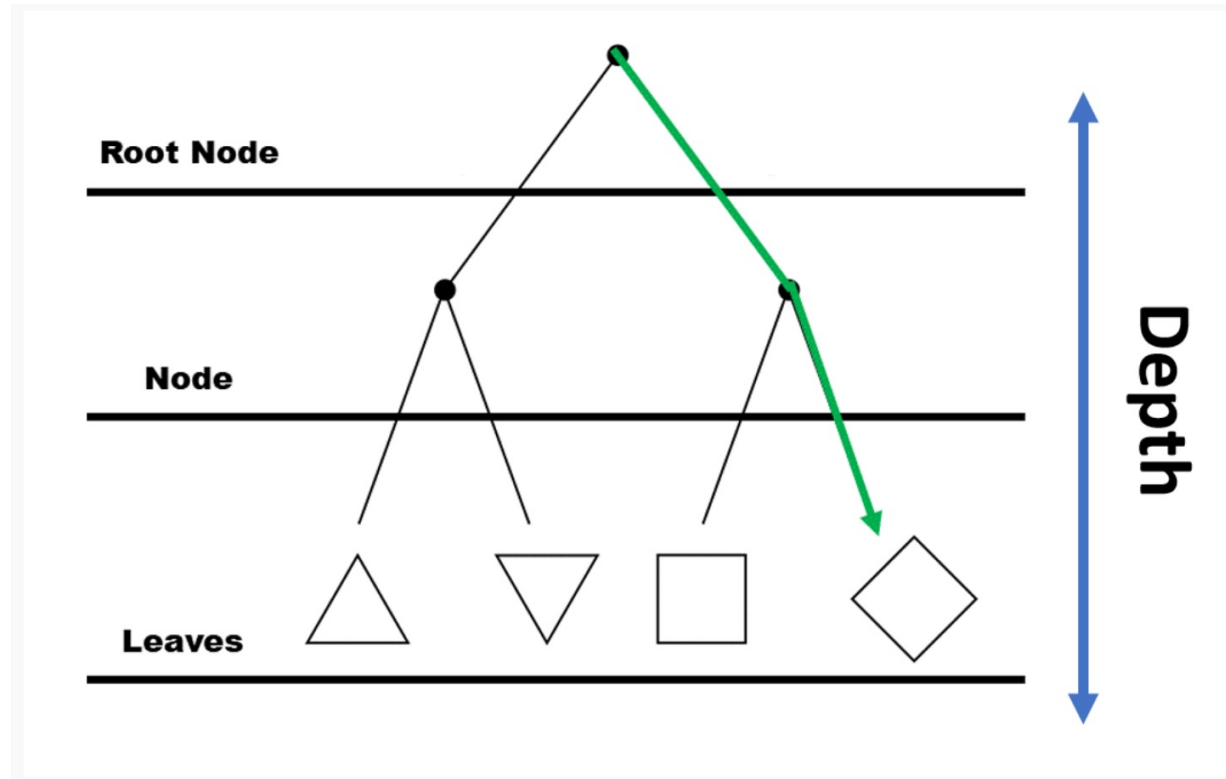# Improving Model Accuracy

What's a Hyperparameter?

- A feature you can mess with that may potentially improve accuracy

- Every ML model has its own

Hyperparameters for DT and RF

- Maximum depth

- Number of estimators

- Maximum number of features

- Minimum number of samples for a leaf

Depth

- How far down the roots of your tree go
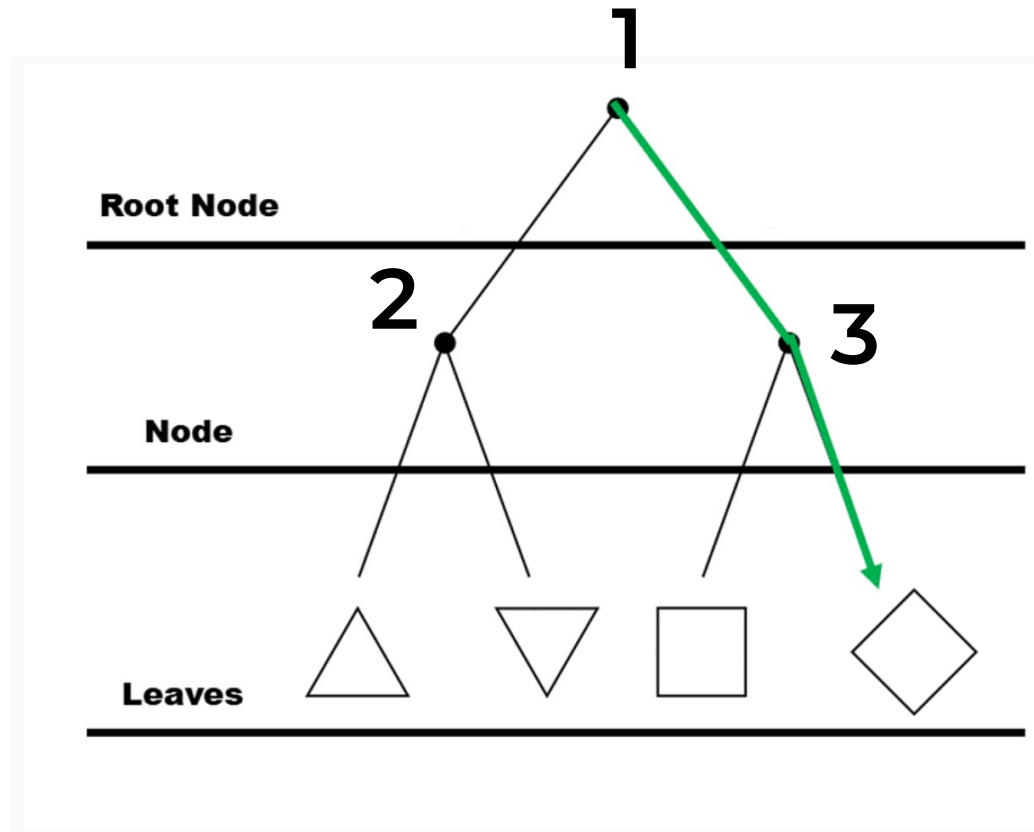- How many nodes its allowed to pass through

Number of Estimators (RF only)

- How many trees you allow in your forest

- More trees = better accuracy and more time

Number of Features

- How many branches / decision points on the tree in total

Number of Samples

- How many data points sorted at each feature

- Is it useful if the decision rule only applies to one or two data points?