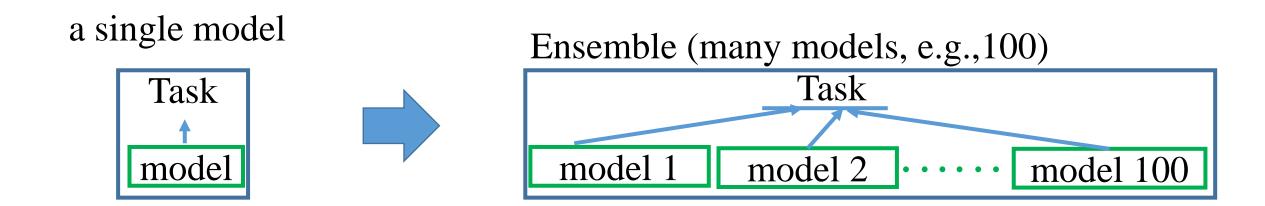
Random Forest

Liang Liang

Combination of Models

- There is no algorithm/model that is always the most accurate
- We can build many models (e.g., simple classifiers or regressors) and combine them into a single "strong" model
- Different models may use different learning algorithms, hyper-parameters, training sets, model type/structure, etc



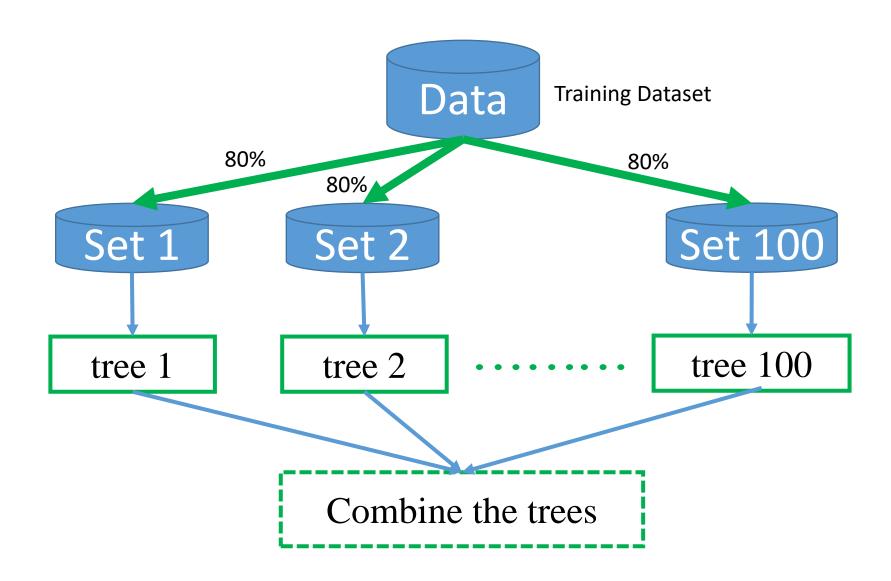
Random Forest (a bag of trees)

• A random forest (RF) is a combination of many decision trees.

• Each tree is trained on a randomly selected subset of the training data

• The output of a RF is average (regression) of the individual trees.

or majority vote (classification) of the individual trees.



see the demo:

Decision_Trees_and_Random_Forests_basics.ipynb

