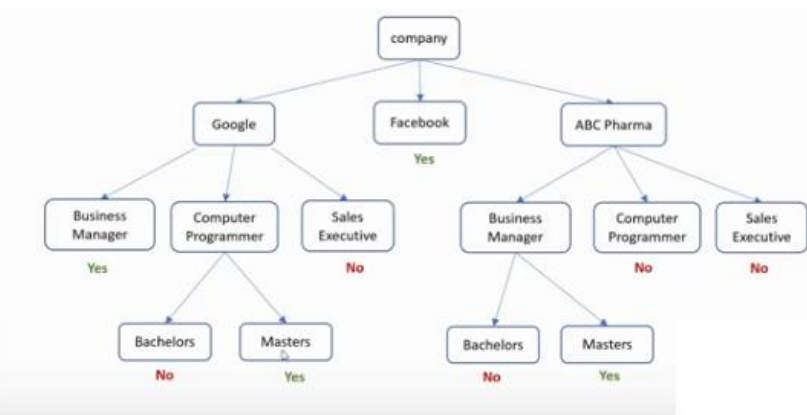


Random Forest Algorithm

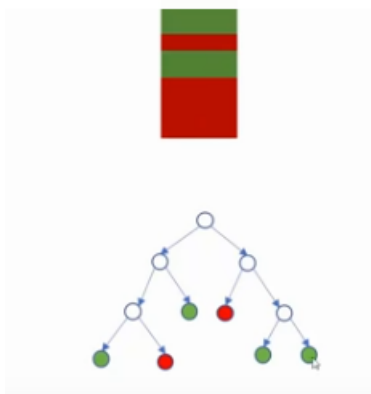
Used both in regression and classification

A forest is collection of trees. A tree in machine learning tree is decision tree

google	sales executive	bachelors	0
google	sales executive	masters	0
google	business manager	bachelors	1
google	business manager	masters	1
google	computer programmer	bachelors	0
google	computer programmer	masters	1
abc pharma	sales executive	masters	0
abc pharma	computer programmer	bachelors	0
abc pharma	business manager	bachelors	0
abc pharma	business manager	masters	1
facebook	sales executive	bachelors	1
facebook	sales executive	masters	1
facebook	business manager	bachelors	1
facebook	business manager	masters	1
facebook	computer programmer	bachelors	1
facebook	computer programmer	masters	1

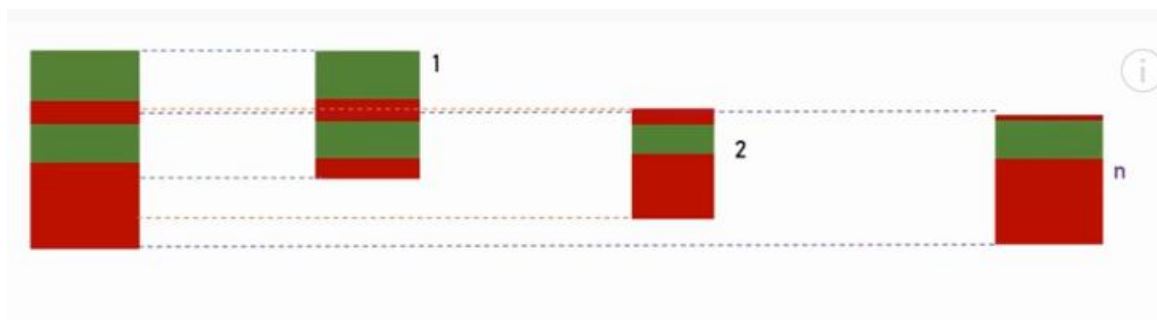


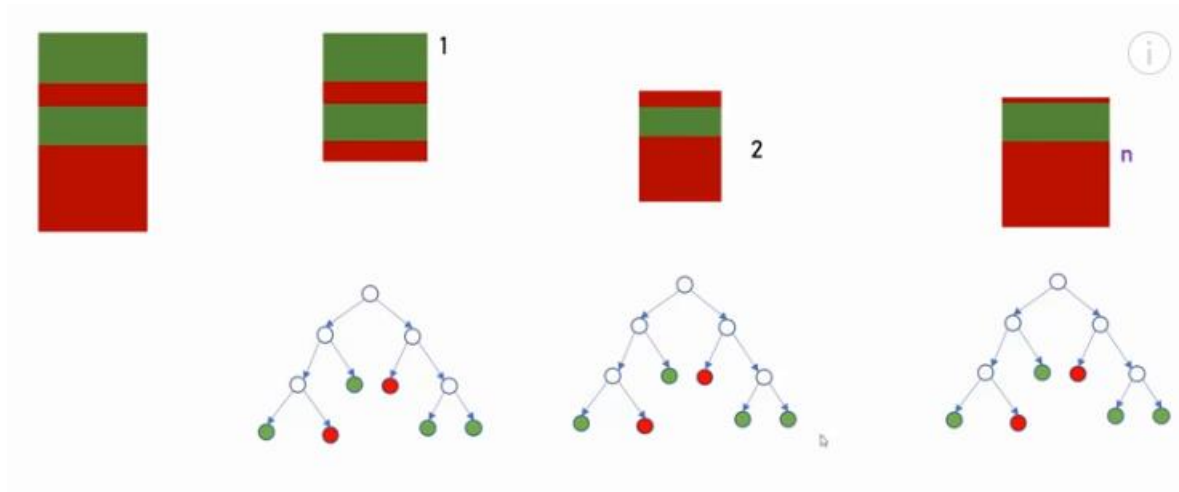
Our decision tree example and it looks like a complex tree structure. Can we represent this tree in a simple way?



We have red and green samples. Based on that build decision tree.

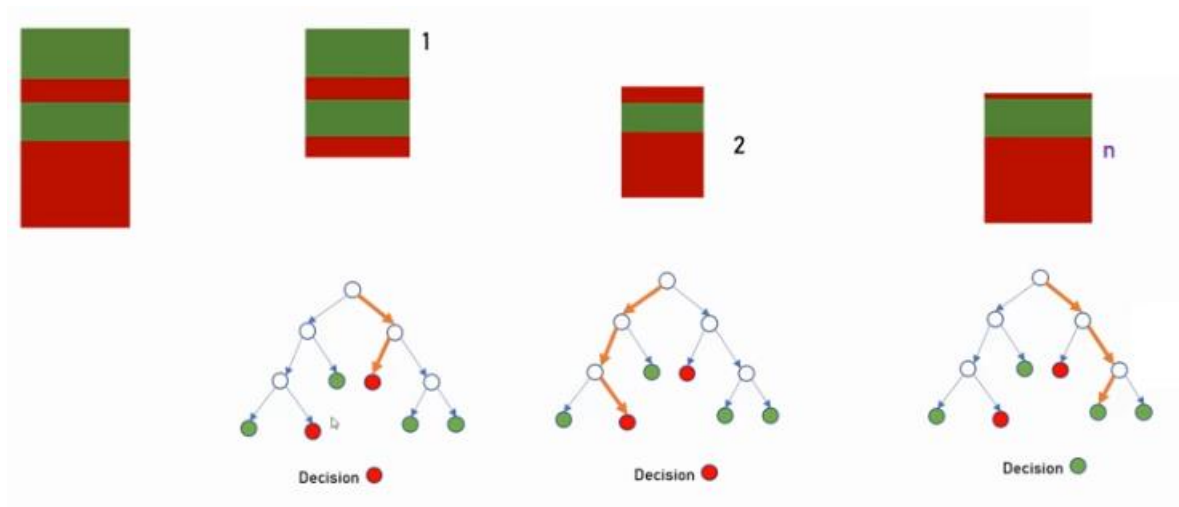
But how can we build multiple decision trees. One approach is take the data set and divide them into batch of random data sets and decision tree for each of them.



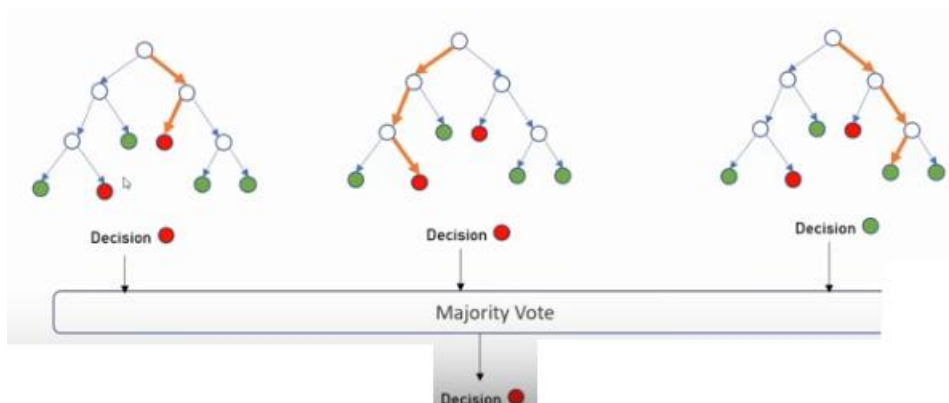


Now its become collection of random decision trees and called random form forest

Once it is trained u give the thing you want to predict they will all come up with different decisions



And we take majority vote and take decision



Example

