

# Random Forest Intuition

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## Ensemble Learning

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STEP 1: Pick at random  $K$  data points from the Training set.



STEP 2: Build the Decision Tree associated to these  $K$  data points.

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STEP 3: Choose the number  $N_{tree}$  of trees you want to build and repeat STEPS 1 & 2



STEP 4: For a new data point, make each one of your  $N_{tree}$  trees predict the category to which the data points belongs, and assign the new data point to the category that wins the majority vote.