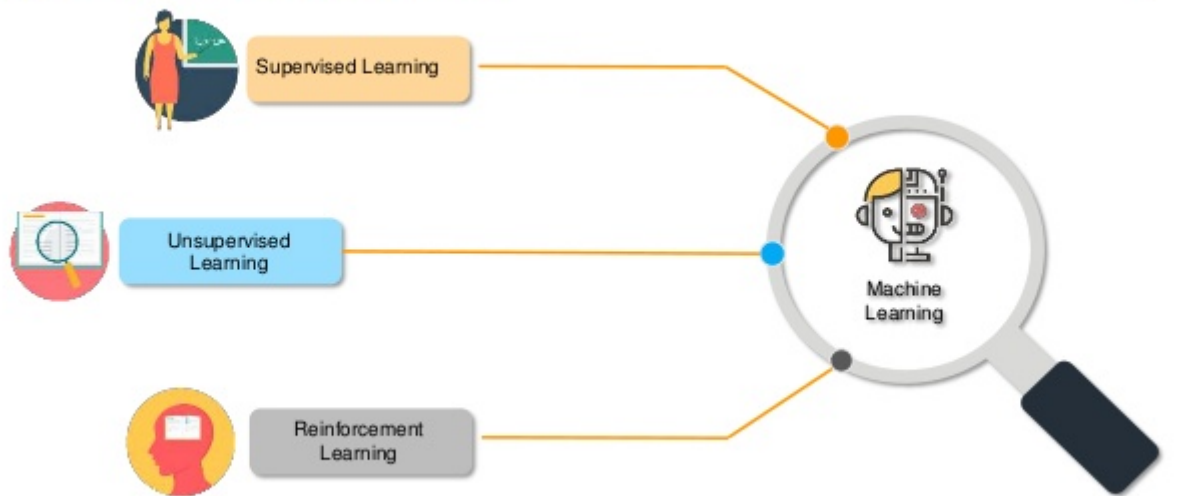




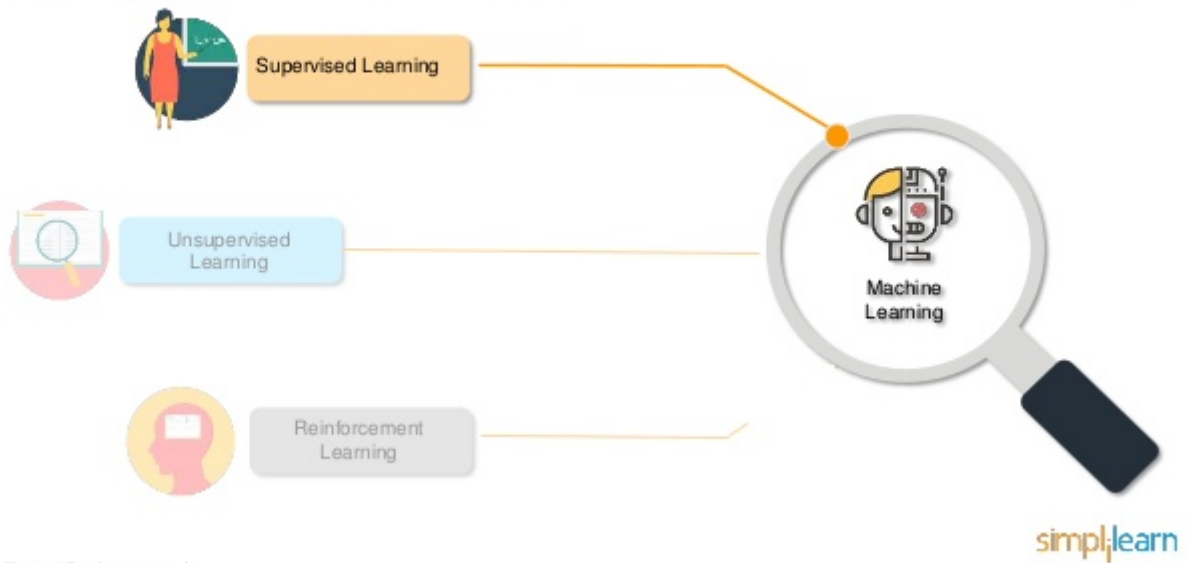
Types of Machine Learning



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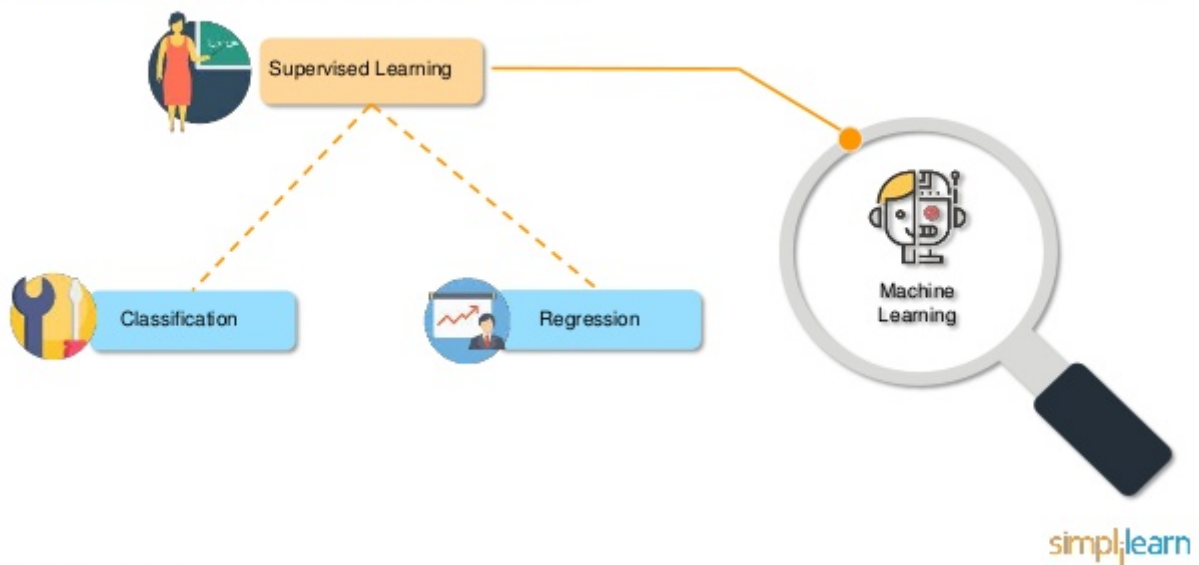
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Types of Supervised Learning



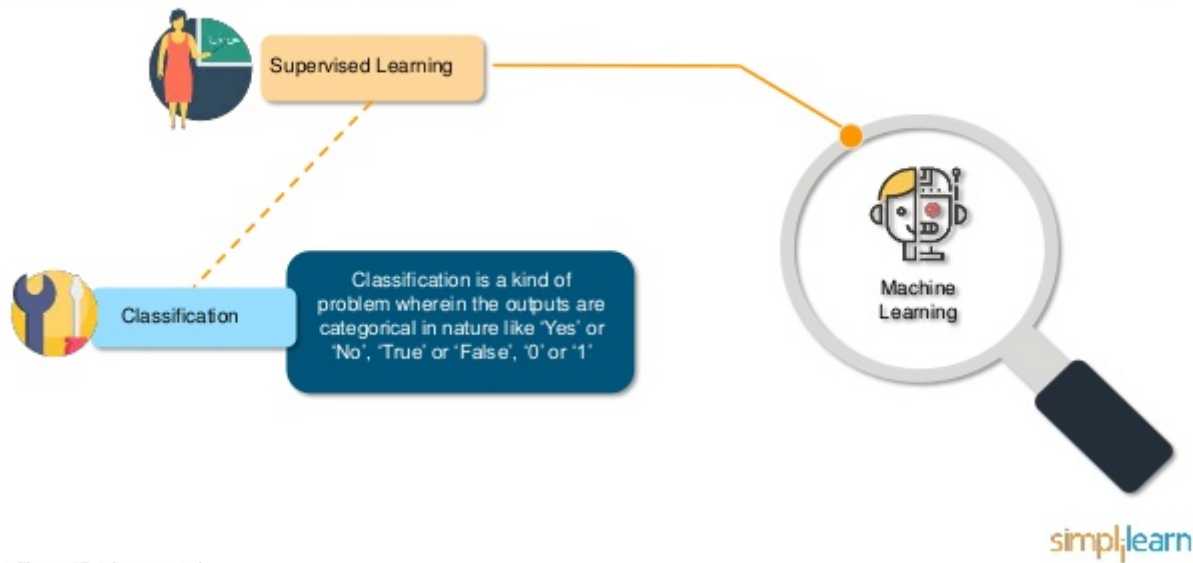
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Types of Supervised Learning



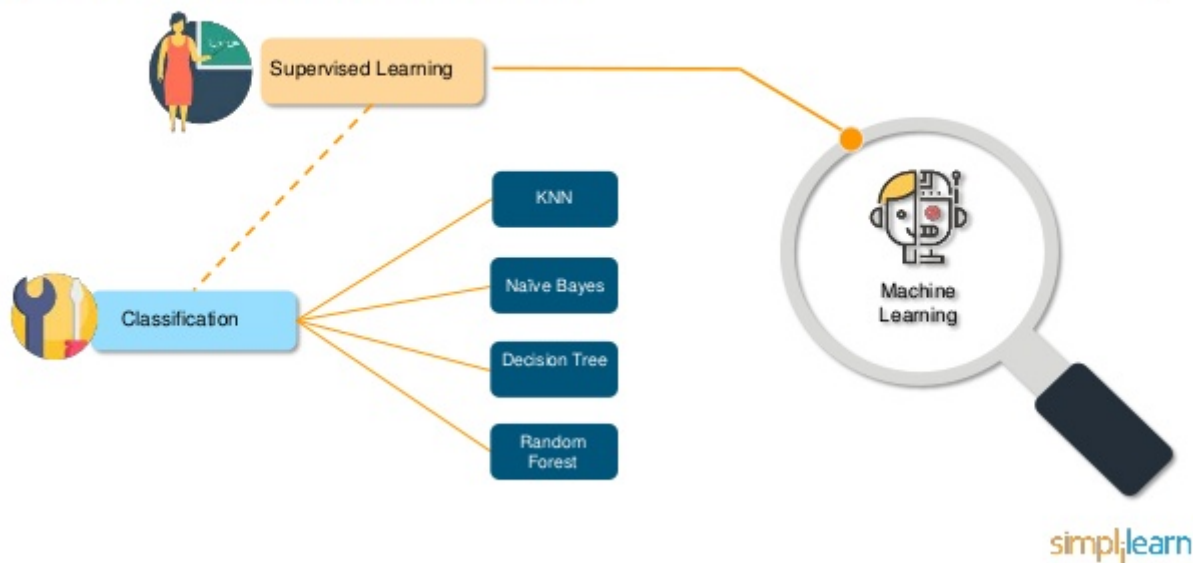
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What is Classification?



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Solutions under Classification



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What is Random Forest?

Random forest or Random Decision Forest is a method that operates by constructing multiple Decision Trees during training phase.

The Decision of the majority of the trees is chosen by the random forest as the final decision

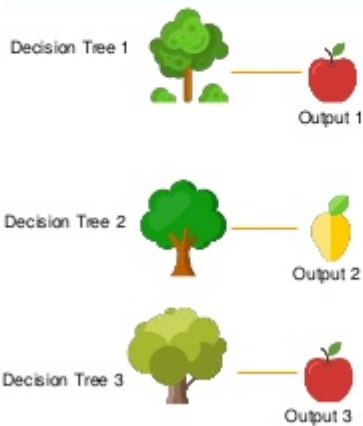
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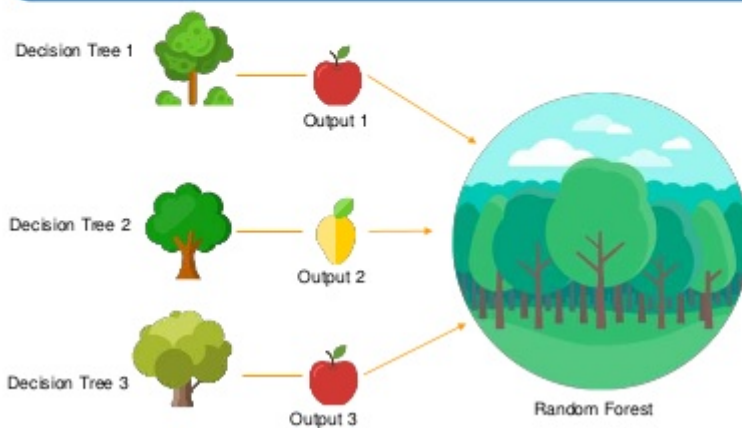
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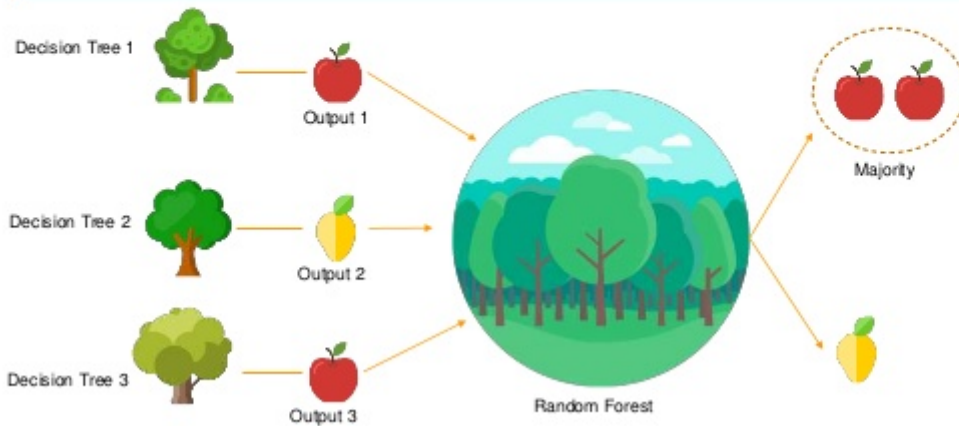
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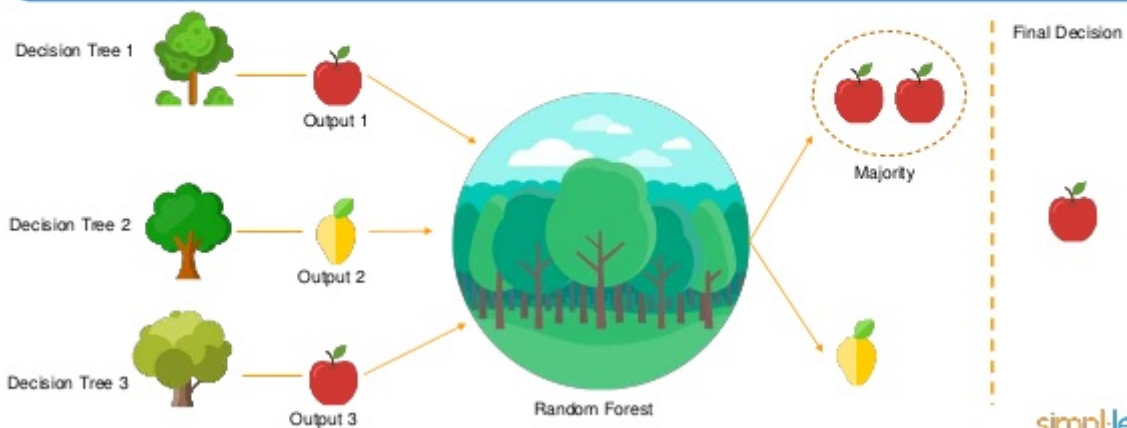
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Why Random Forest?



No overfitting

Use of multiple trees
reduce the risk of
overfitting

Training time is less



High accuracy

Runs efficiently on large
database

For large data, it
produces highly
accurate predictions

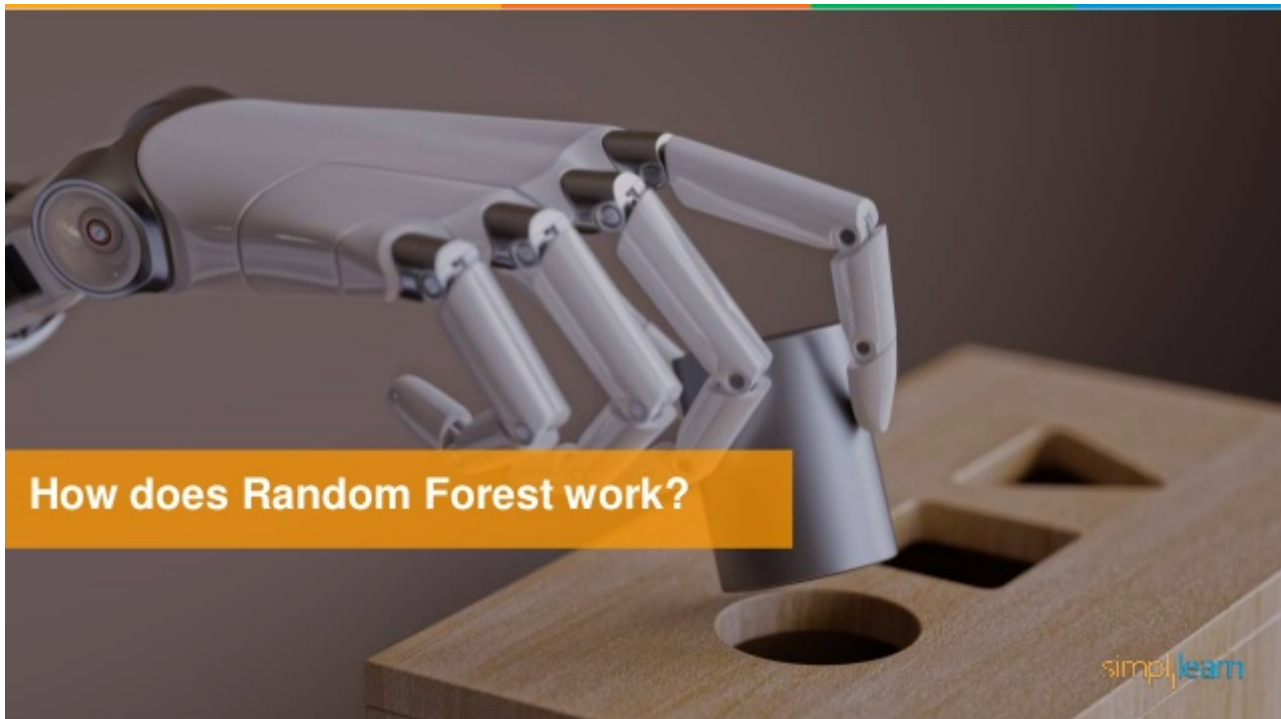


Estimates missing data

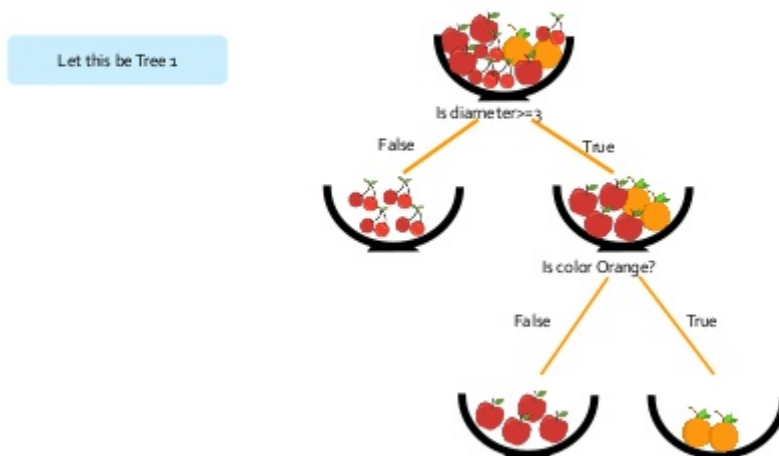
Random Forest
can maintain
accuracy when a
large proportion of
data is missing

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How does a Random Forest work?

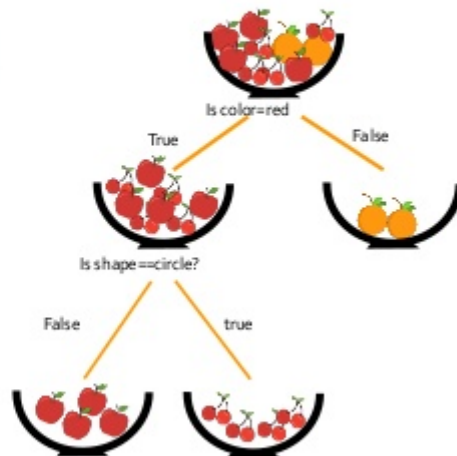


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How does a Random Forest work?

Let this be Tree 2

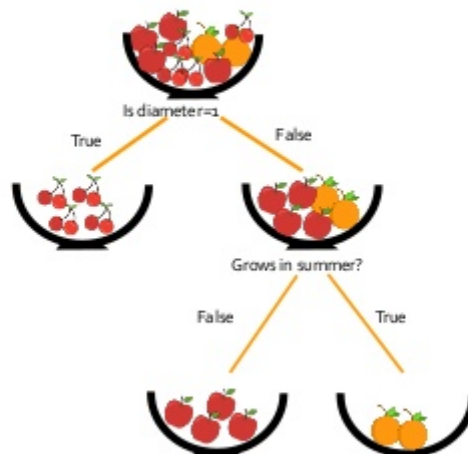


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How does a Random Forest work?

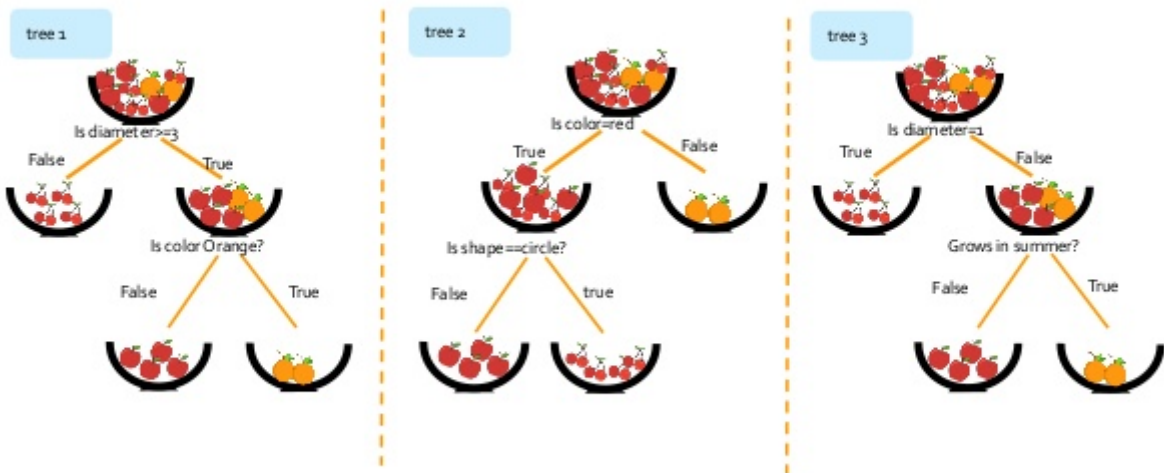
Let this be Tree 3



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How does a Random Forest work?



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How does a Random Forest work?

Now Lets try to classify this fruit



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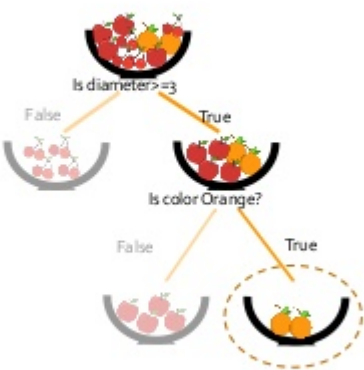
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How does a Random Forest work?

Tree 1 classifies it as an orange



Diameter = 3
Colour = orange
Grows in summer = yes
SHAPE = CIRCLE



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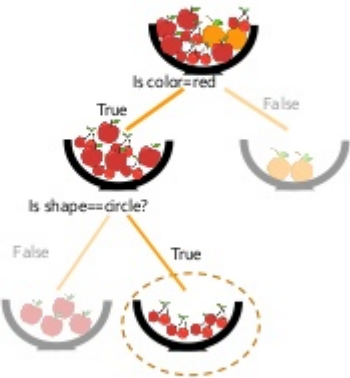


How does a Random Forest work?

Tree 2 classifies it as cherries



Diameter = 3
Colour = orange
Grows in summer = yes
SHAPE = CIRCLE



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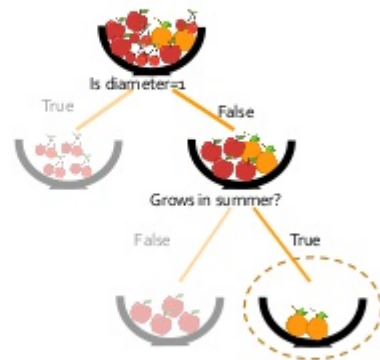


How does a Random Forest work?

Tree 3 classifies it as orange



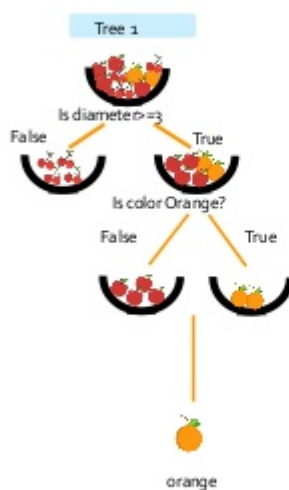
Diameter = 3
Colour = orange
Grows in summer = yes
SHAPE = CIRCLE



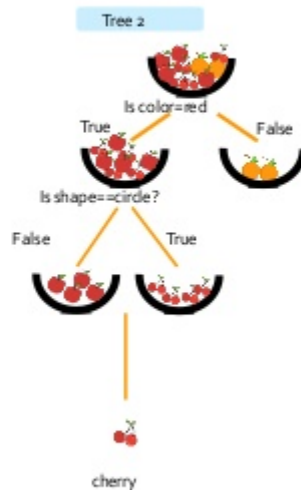
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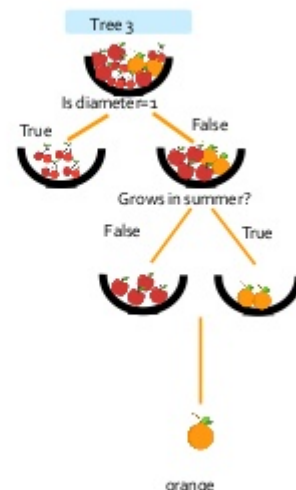
How does a Random Forest work?



orange



cherry

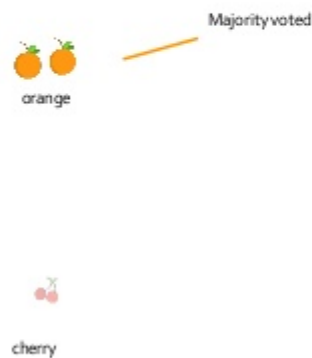


orange

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How does a Random Forest work?



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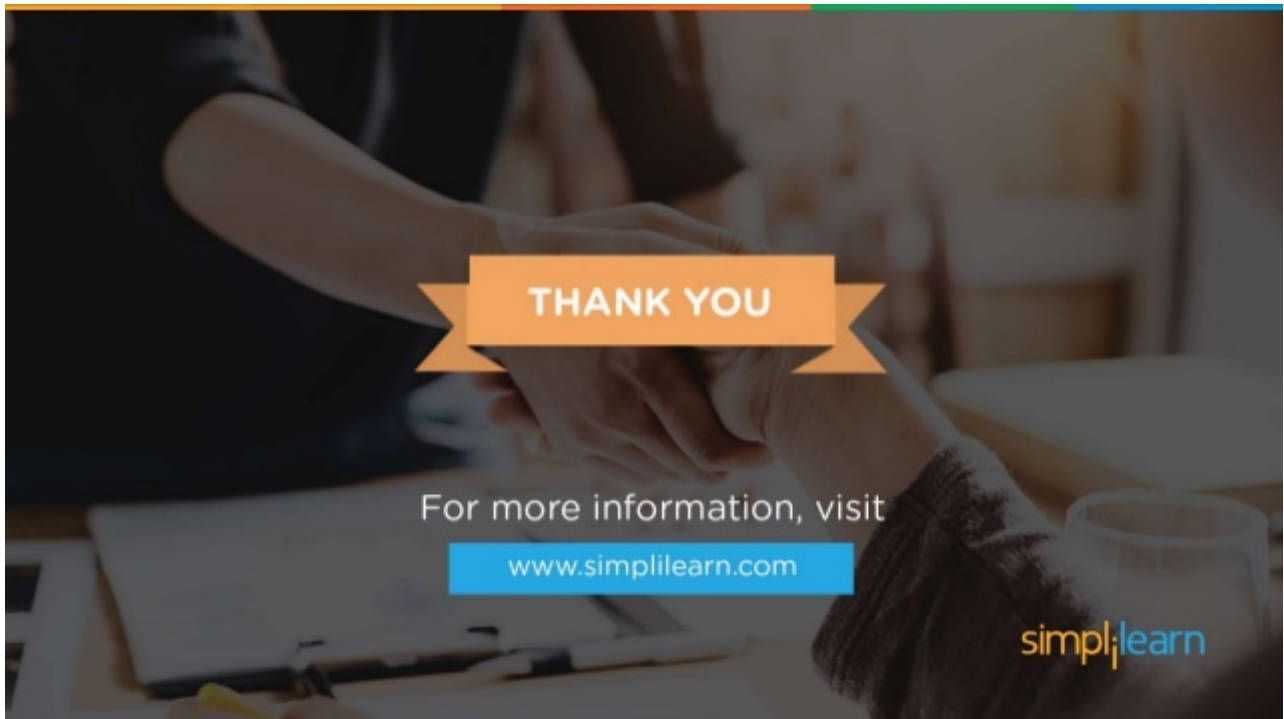


How does a Random Forest work?



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