

Chap 3

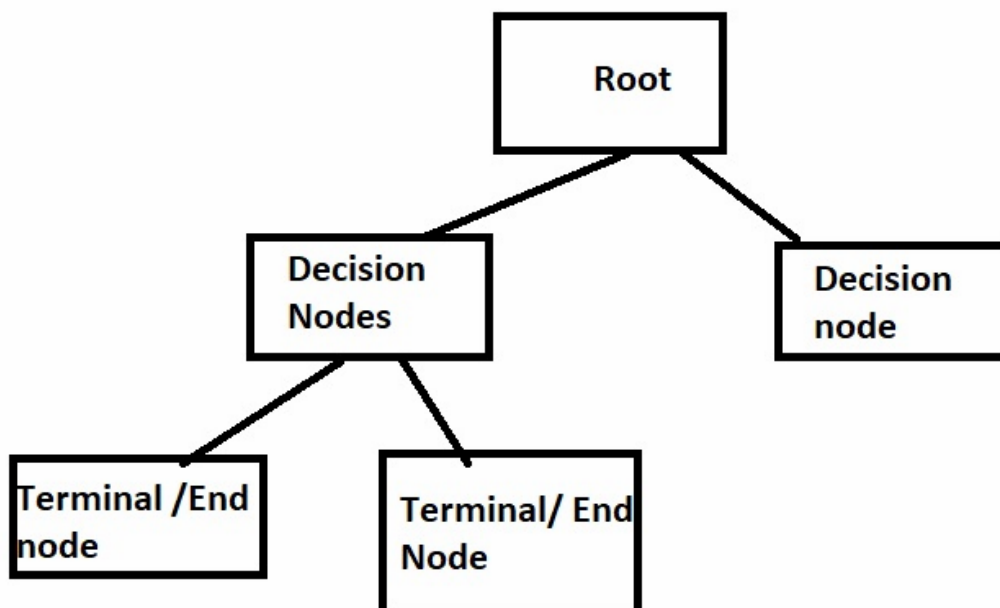
A decision tree typically starts with a single node, which branches into possible outcomes. Each of those outcomes leads to additional nodes, which branch off into other possibilities. This gives it a tree-like shape.

There are three different types of nodes:

chance nodes,

decision nodes, and

end nodes.



Decision Tree Example

example. Let's assume we want to play badminton on a particular day — say Saturday — how will you decide whether to play or not.

Day	Weather	Temperature	Humidity	Wind	Play?
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1	Sunny	Hot	High	Weak	No
2	Cloudy	Hot	High	Weak	Yes
3	Sunny	Mild	Normal	Strong	Yes
4	Cloudy	Mild	High	Strong	Yes
5	Rainy	Mild	High	Strong	No

