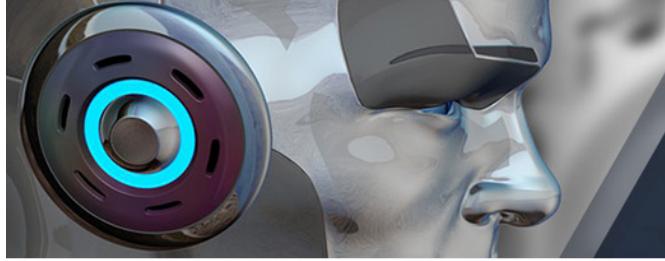




Decision Trees



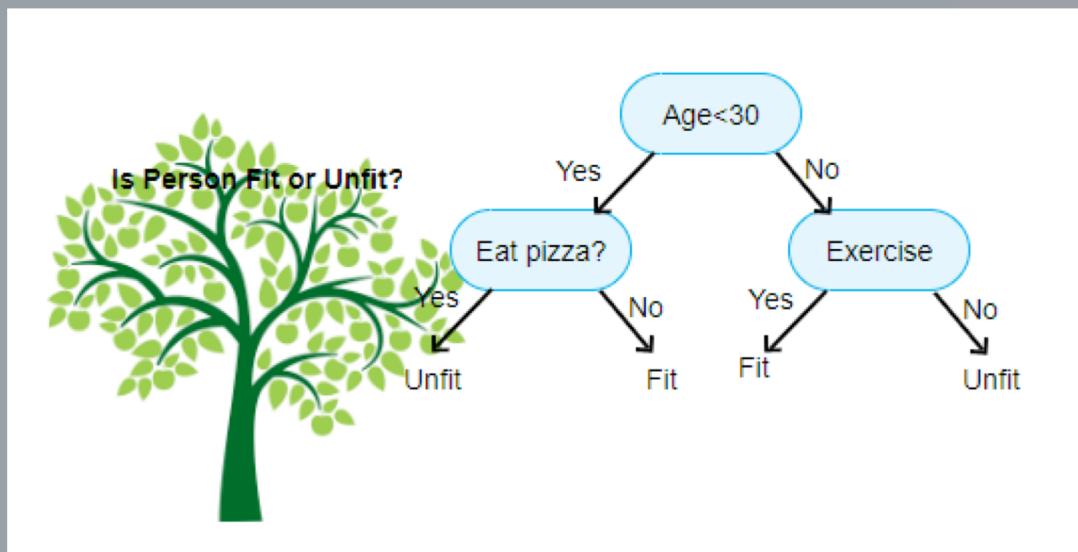
Importance of Decision Trees

- What is a decision tree and how does it work?
- What are the common terminologies used in decision trees?
- How to read python's visual output of a decision tree?

Decision Tree how it works

A decision tree is a supervised learning technique for classification problem that works well with both Classification and Regression tasks.

It is a tree type structure and all the possible solutions to a decision that is based on certain conditions.



Decision Tree Terminology

Root node: The top most node in a Decision Tree

Branches: Divisions of whole tree is called branches

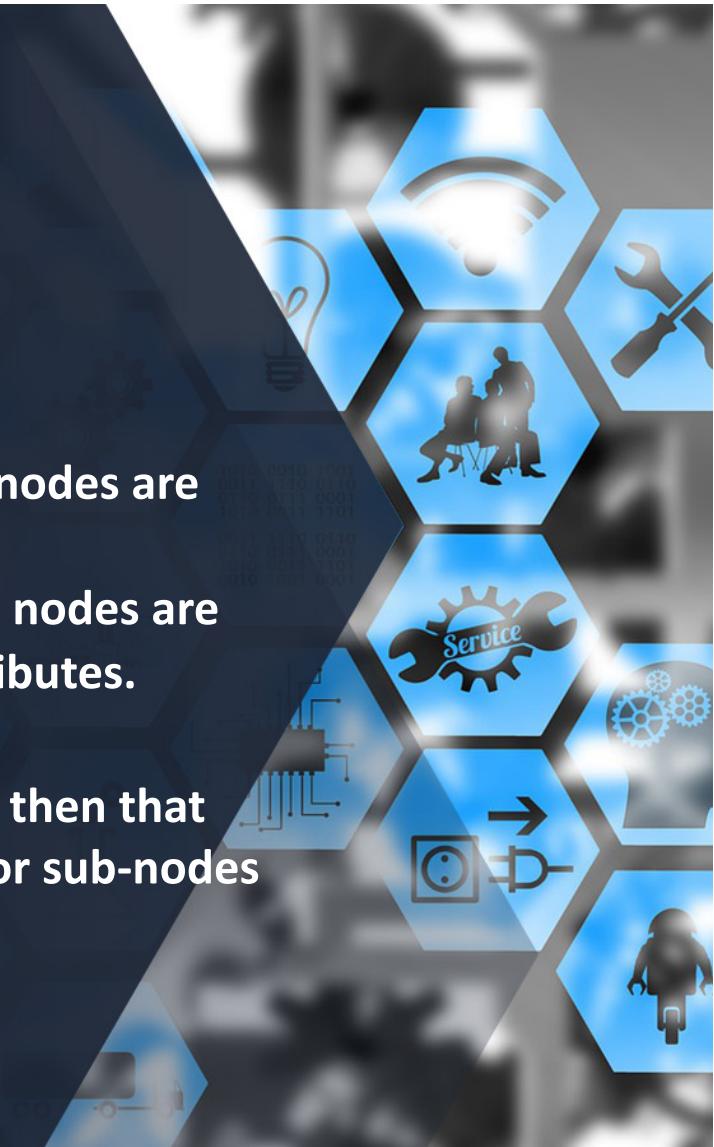
Splitting: Division of nodes is called splitting

Terminal node/leaf node: Nodes which do not split further nodes are called terminal or leaf node.

Decision node: These are internal nodes of the tree, these nodes are expressed through conditional expression for the input attributes.

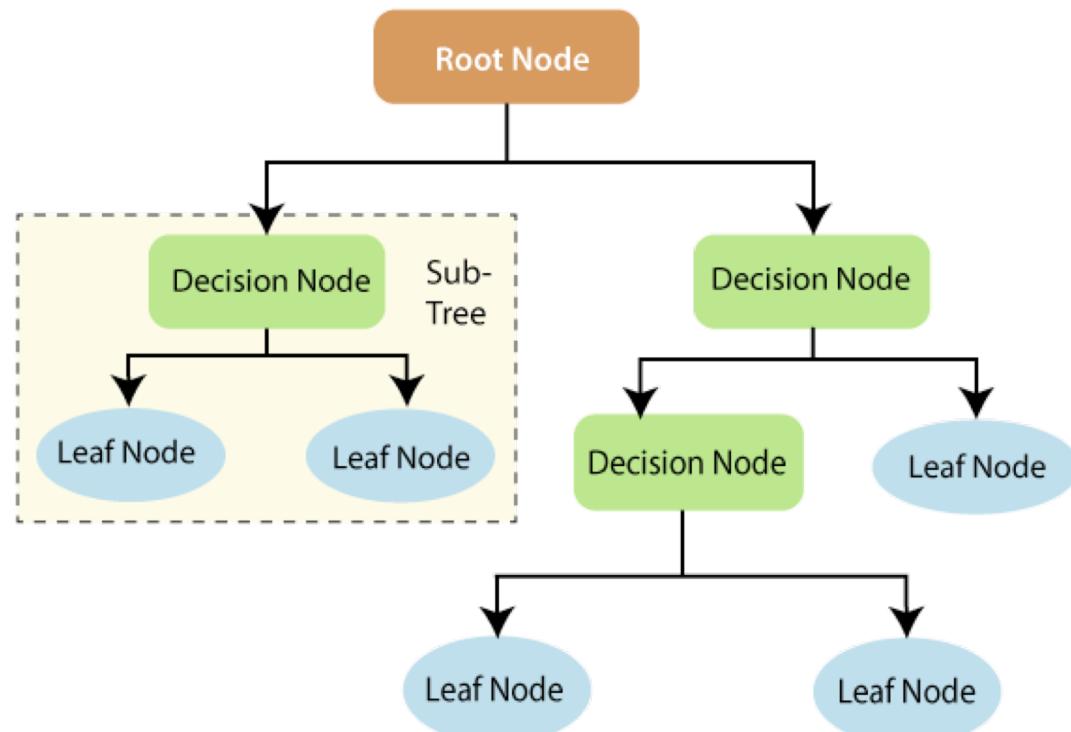
Pruning: The shortening of the branches Is called pruning.

Parent and child node: When a node gets divided further then that node is termed as parent node whereas the divided nodes or sub-nodes termed as a child node of the parent node.





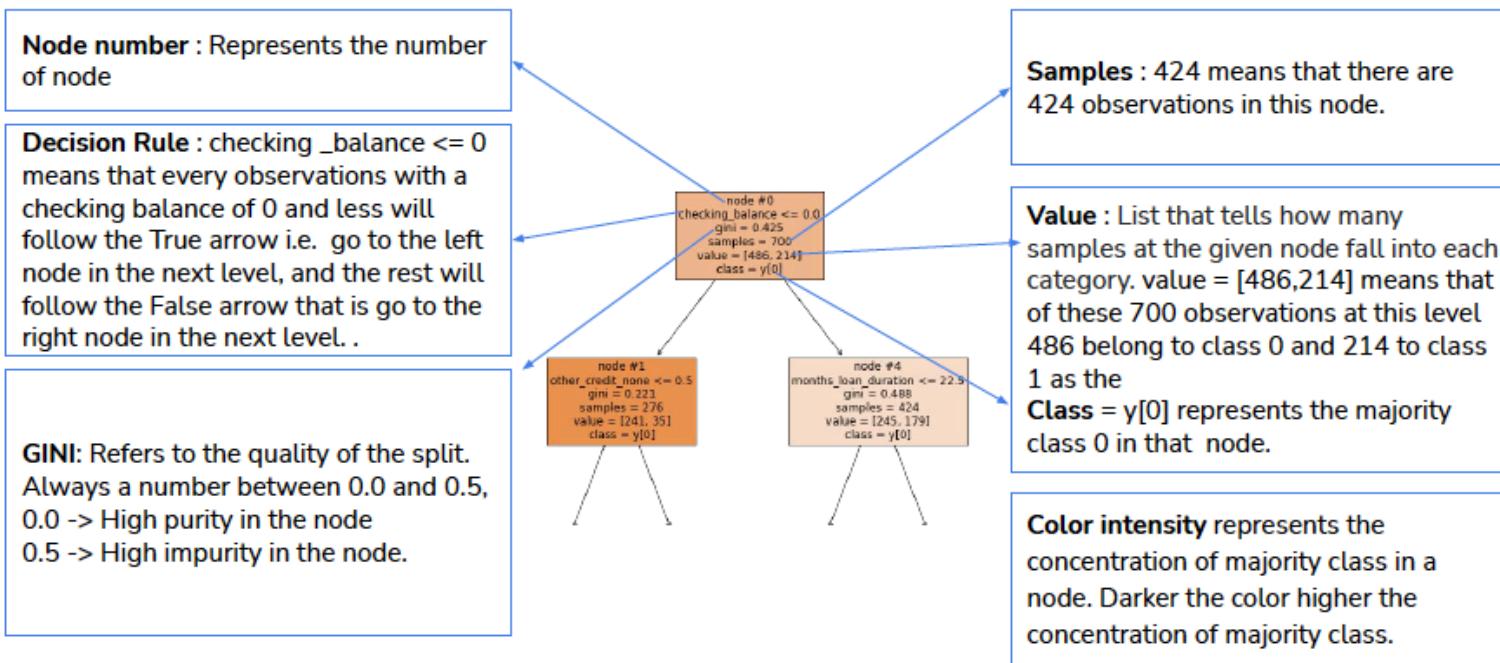
Decision Tree Structure





Decision Tree Python Visual

How to read python's visual output of a decision tree?





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