

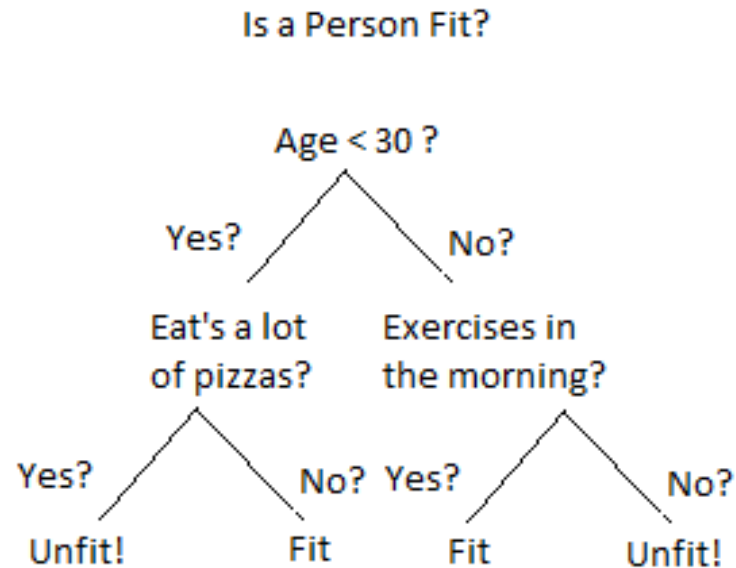


Start-Tech Academy

Decision Trees - Basics

Definition

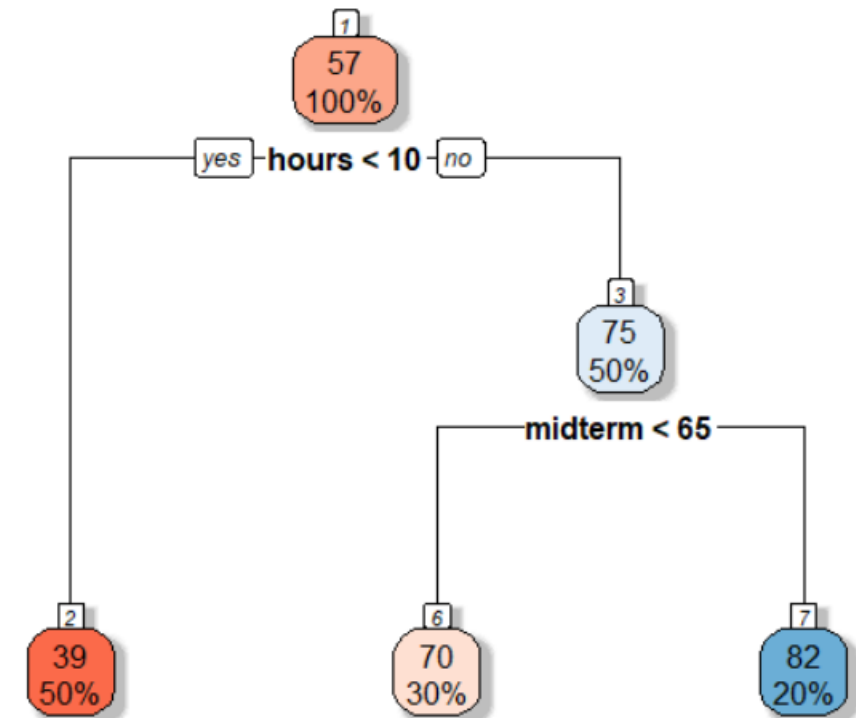
A decision tree is a decision support tool that uses a tree-like model of decisions and their possible consequences, including chance event outcomes, resource costs, and utility. It is one way to display an algorithm that only contains conditional control statements.



Decision Trees - Basics

Example

	score	hours	midterm
1	35	6	42
2	38	5	65
3	40	7	35
4	45	6	75
5	35	8	60
6	65	11	50
7	70	12	45
8	75	18	40
9	80	14	80
10	85	12	82



Decision Trees - Basics

Types

1. Regression Tree
For continuous quantitative target variable.
Eg. Predicting rainfall, predicting revenue, predicting marks etc.
2. Classification Tree
For discrete categorical target variables
Eg. Predicting High or Low, Win or Loss, Healthy or Unhealthy etc



Decision Trees - Basics

Terminologies

