Decision trees for classification

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A decision tree is a decision support tool that uses a tree-like graph or 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.

Tree-based learning algorithms are considered to be one of the best and mostly used supervised learning methods. Tree-based methods empower predictive models with high accuracy, stability and ease of interpretation. Unlike linear models, they map non-linear relationships quite well. The focus of this talk will remain on classification decision trees. We will try to answer questions like what are decision trees, how are they used in classification with the help of an algorithm, what are the advantages and disadvantages of using decision Trees and comparison with other learning methods.