**Decision tree**

**Type.** Decision tree is a supervised learning example.

**Description.** Decision tree uses the tree representation to solve the problem in which each leaf node corresponds to a class label and attributes are represented on the internal node of the tree. Decision trees classify the examples by sorting them down the tree from the root node to some leaf node, with the leaf node providing the classification to the example.

**Efficient applications.** Efficiency It will be the most useful when we want a simple model and when we have limited computational power.

**In use.** Real life examples of decision tree are automated telephone systems and mortgage providers using historical data to predict how likely it is that a borrower will default on their payments.