

Abstract

Data mining is a process to find out the potential of information implicitly from database which unknown identifier before. One of many tasks in data mining that would be the subject of this final project is classification, especially Bayesian Networks (BN) Classifier.

Bayesian Networks (BN) is a directed acyclic graph whose nodes represent variables and arcs represent statistical dependence relations among the variables and local probability distributions for each variable given values of its parents.

This final project analyzes the performance and accuracy of Naïve Bayes classifier and Tree Augmented Naïve Bayes classifier as classification technique of BN which build using conditional independence test based algorithms.

Keywords: Bayesian Network Classifier, classification, data mining. Conditional independence test, Naïve Bayes, TAN.