

ABSTRACT

Data mining is a scientific field which tries to find interesting and novel information from a large data set. One interesting task in data mining that would be the point of view in this Final Project is classification, especially those which uses decision tree. The making of decision trees are usually held on two separate phases, which are building phase and pruning phase, respectively.

This Final Project analyses the performance of PUBLIC as a classification algorithm which offers integration of pruning phase on data mining with its building phase of the tree within parameters of accuracy, speed, decision tree's simplicity, and scalability, and implements it to solve classification problems in data mining.

As the result, it had been proved that integration of tree building and pruning phases in PUBLIC algorithm can speed up the decision tree making and keep the accuracy and scalability.

Keywords: data mining, classification, decision tree, PUBLIC (PrUning and BuiLding Integrated in Classification)