ABSTRACT

Thesis that entitled "Implementation Analysis and Comparison with the J48 decision tree on Quickprop JST Engineering Case Study Disease Classification and Prediction Fundamentals (typhoid) Based on the Patient physical symtoms" is to study comparative analysis between 2 methods of learning systems which are very popular used to deal with classification and prediction datasets, namely between Decision Tree and Neural Networks. Decision tree algorithm which used is J48 algorithm and Neural Networks that is used to learning of data is quickprop. From some literature says that each of these algorithms have a special advantage in dealing with a case study - a particular case study.

On the test results of each algorithm to do classification datasets, both of dimension 4 and 2 grade class showed that the decision tree algorithms tend more flexible than JST algorithm that susceptible to 4-dimensional dataset of the class. But the vulnerability of each of these algorithms can be evaluated by the resampling process datasets that will be used in the classification stage. Of the overall testing of each algorithm in classifying datasets show that decision tree learning techniques with J48 has performance better than the quickprop JST learning techniques based on case studies of this thesis dataset.

Keywords : *decision tree, neural networks, J48, quickprop*