

ABSTRACT

Data mining is a process data analysis using software to find pattern and rule from amount of data. Data mining able to analyze a huge data and then change them into information which has an important meaning to decision support.

One of technique in data mining is classification which is a process to find a model or function which explain a concept or class data in order to predict class from unlabel object .

At this final project we will make a software which applying decision tree method with C4.5 algorithm algorithm then analyze the percentage of the truth value of the tree and classification result and then compare it with WEKA J48. Implementation's tools are Microsoft Visual Basic 6.0 and Microsoft Access 2003 as DBMS.

Testing result showed that the tree that produced from software that applying decision tree method with C4.5 algorithm has percentage of the tree truth value are between 66.67 % to 100%. This percentage of the tree truth value depend on training data that used to build the tree.

Keywords : Data mining, classification, decision tree, C4.5