Abstract

Industry and information development undirectly causing big amount of data has been collect. Actually, those data still useful for us. One way to extract important or interesting pattern from big amount of data to find more useful information is by using data mining.

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 .

In this final project we discuss about Classification & Regresion Tree (C&RT or CART), one algorithm of decision tree method and analyze it's performance of accuracy. C&RT algorithm has special characteristic like always splitting one parent node into two child node. The implementation using Clementine tools and later we develop some interface that integrate with Clementine tools, hopefully can help user to make and discover the classification result.

Testing result showed that applying decision tree method with C&RT algorithm has an accuration of the tree truth value are which depend on training data that used to build the tree and it decide the rule on testing process.

Keywords: *Data mining, Classification, Clementine, decision tree, C&RT, CART*