

Abstract

Data is one of resources which used for gathering information. However, not all data working good. If the data have a complex structure, it is hard to understand. For Example, *microarray* which used in this final project. This data have a large dimension structure and *multi-label* which make it complicated. Therefore, we need *feature selection process* which is decreasing the data size in spite of resulting a well and sufficient accurate value if there is any accuration declining of data clasiffication.

In this final project, comparison of methods *feature selection* is *Max-Relevance* by using some attribute evaluator such as *GainRatioAttributeEval*, *InfoGainAttributeEval*, *Mutual Information*, and *SymmetricalUncertAttributeEval*. Those methods applied by filtering. Process data classification using tools *weka*, classification technique used is *Naïve Bayes*, which counting data appearance ammount. By doing comparison analysis to knowable methods we know which feature selection methods more reliable in handling data with big dimension specially *microarray* data. Measuring evaluation which compared to is the result of classification process, *accuracy*.

Keywords: *microarray, feature selection, classification, naïve bayes, accuracy.*