

## Abstract

Analysis of DNA microarray or gene expression has modernized the biological approach so that scientists have been able to measure the accuracy of thousands of genes in a single experiment. Given the feature selection can extract genes that will affect the accuracy of classification by eliminating unwanted and excessive genes. In this Final Project study used two stage of feature selection of Pricipal Component Analisys and Apriori to increase the percentage accuracy and classification with Bakcpropogation. From this research got result equal to 79,4% by using Principal Component Analisys and Apriori as feature selection.

**Keywords:** DNA microarray, feature selection, PA(PCA+Apriori) algorithm, backpropogation