

## ABSTRACT

Discriminant analysis is one of statistical technique which can be used in dependency or variables correlation where can distinguish the respond and the explanatory one. For more specifically, discriminant analysis is used where the respond cvariable is qualitative data and the explanatory variables is quantitative data . Discriminant analysis aims to classify an individual or group observations into mutually independent and thorough (exhaustive) based on number of explanatory variables.

In the final assignment will be carried out an analysis aiming to realize the use of Linear Discriminant Analysis in classifying data and seeing accuracy of the data classification using MATLAB software, to obtain the advantages of Discriminant Linear Analysis method to process the data linearly and to apply the system in Cross Validation method.

Discriminant analysis is the main basic on pattern recognition system to maximize the diversity of the class, where the typical of Linear Discriminant Analysis is homoscedastic and normal distribution, which is a state of variance is constant or used to be identical. From this research, the value of LDA is 1.9 which is better than PCA's value, 5.9.

Keywords: Linear Discriminant Analysis, data classification.