# ABSTRACT

*Classification is one of the functionality in data mining which is used to find a set rule that can determined a class in dataset. One of the algorithms that usually used for classification process is K-Nearest Neighbor algorithm. In order to reduce the lack from KNN, there have been proposed an algorithm called Condensed Nearest Neighbors (CNN) . Unfortunately, CNN characteristic is order dependent. For handling the lack in CNN, Fabrizio Angiulli proposed an algorithm called Fast Condensed Nearest Neighbors (FCNN).*

*In this Final Project the implementation and the analysis of Fast Condensed Nearest Neighbors (FCNN) algorithm is performed. The analysis is carried out to the accuracy that result from the implementation of FCNN and compared with the accuracy result from CNN. Comparison Parameter such as accuracy, subset size, iteration, and learning time is used in the analysis. In the other hand, FCNN it self is an order independent algorithm that can compute a training set consistent subset. This characteristic makes FCNN have a relative stable accuracy compared with CNN.*

***Keywords*** *: classification, Fast Condensed Nearest Neighbors algorithm, order independent*