

## ***Abstract***

*The accuracy in classifying the objects of a class is one parameter that seen in the ability of a method or algorithm classification. One algorithm, Artificial Neural Network (ANN), namely backpropagation algorithm is one algorithm that is often used in cases of classification in data mining. While Bootstrap Aggregating (BAGGING) is one method to improve the accuracy of the prediction results of a classification algorithm. The combination of ANN algorithm Backpropagasi and BAGGING method is expected to improve the performance of the classification accuracy of an object of the class. In this final task, analysis BAGGING method against ANN models especially Backpropagasi algorithm. Primary data, as object of research in this final task is a follow-up data of patients Emergency Unit. From the performance test results obtained in this Final Task that influence use of Bagging method in ANN models are not stable in improving the accuracy of classification results.*

*Keywords: Classification, Data mining, Patient, ICU, Artificial Neural Network (ANN), backpropagation, Bootstrap Aggregation (Bagging), Improvement, Accuracy*