

## **Abstract**

Imbalance class represents imbalance in number of training data between two different classes, one of the classes represents majority class and another classes represents minority class. Classification technique cannot predict minority class so that it needs a way of technique for predict minority class. Imbalance class can handle with boosting that is technique which joining classification technique with one of the boosting algorithm that is RareBoost-1. In Rareboost-1 algorithm, it done simple oversampling to minority class of training data and weighted to training data. Oversampling and the weighted done in each iterasi and by the end of iterasi will be done voting to result of predict from each iterasi. Result of examination indicate that Rareboost-1 algorithm can predict minority class so that good performance progressively in comparison with original classification.

**Keywords:** imbalance class, boosting, RareBoost-1 algorithm, oversampling, weighted, voting.