ABSTRACT

The variation of maize planting by Gorontalo's farmer caused the complication of selection and classification of productive maize therefore the farmer's success in cultivating the maize still not effective. It would affect the production of maize which was not accord with the expectation. The research aimed to apply the *Naive Bayes* method to classify the productive maize in Gorontalo so that it could increase the maize production. The result of classification with *Naive Bayes* method was based on the productive or non productive class and particular spesification could be said as productive or non productive with performance percentage was 33%. It was caused by larger number of continuous data then the discrete data.

Keywords: Productive Maize, Classification, *Naive Bayes*