Abstract

Good grade performance for a student is important because it can affect the student's final index. But the performance of student scores is generally seen at the end of the semester. So, if students who have poor grade performance do not get the opportunity to improve. Therefore, it is necessary to have an early analysis of students who have low grades. Because most student activities are currently in LMS, the LMS can at least reflect the activities of undergraduate students. The algorithm used for classification in this study is Naive Bayes. Naïve Bayes was chosen because it has a fairly good performance for small dataset sizes from the results of recall and accuracy. The dataset used is in the form of data from the LMS activity in the Modeling class and implementation of the Telkom University database. Naive Bayes algorithm successfully predicts student performance early and provides information on students experiencing changes in performance. For the performance of the Naive Bayes algorithm in the classification of datasets, this study produces a fairly good performance with the highest accuracy of 93%.