

ABSTRACT

The percentage of students graduating on time is one of the important aspects in the accreditation of a college. So it is very important to ensure and continue to motivate students to graduate on time. By predicting the probability of student graduation, it is hoped that lecturers can focus on paying attention to students who are predicted to have low graduation. By implementing data mining classification, predicting student graduation will be much easier and more efficient. In this study, by applying one of the data mining classification methods, namely Naive Bayes, the data classification process can be predicted with fairly good accuracy based on previous studies. The classification process starts from the data collection process. The data used are student grades and graduation probabilities which are the object of this research. In this study also tested the comparison ratio between training data and test data which is the most optimal for the Naive Bayes method. From the results of this study, by applying the Naive Bayes method, it was found that by using a ratio of 80% of the training data, the results obtained were more optimal. The accuracy rate obtained from this method is 90.78%, with data precision of 88%, and recall of 88.4%. These results are expected to be useful for further research literature studies and also so that universities can pay more attention to the probability of graduating students in order to improve campus accreditation.

Keywords— classification, data mining, naive bayes, student graduation