

Abstract

Timeliness graduate students is important for a university because it is one of the conditions of accreditation, not least Telkom University. Telkom University is one of the private universities in Indonesia which offers a variety of courses, one of Informatics. The study program accepts approximately 640 students annually. However, the number of students is not matched with students who graduate on time. Students who graduate on time only reached around 15% every ta-hunnya. Many aspects that cause students to add their study period. Some of them are hometown, number of credits, GPA, how many times take courses in TA, and many more aspects that can affect the timeliness pass. Timeliness pass can be classified based on the existing aspects.

In this final project, carried out the classification of timeliness pass by using algorit-ma Naive Bayes classifier. The algorithm is built using Java Netbeans. Tests conducted to determine the optimum point of Naive Bayes classifier algorithm. The test results with comparison data obtained an accuracy of 86%. The algorithm is the optimum point on the sharing of data with a ratio 90% 10% training data and testing the data. Based on tests performed per attributes, factors affecting the timeliness passed not only from one factor alone because many factors are interconnected, so it can not be ascertained the cause of the delay time pass only on one factor alone.

Keywords: graduation on time, Classification, Data Mining, Naive Bayes Classifier