ABSTRACT

Graduation Information is important for Universitas Multimedia Nusantara which engaged in education. The data of graduated students from each academic year is an important part as a source of information to make a decision for BAAK (Bureau of Academic and Student Administration). With this information, a prediction can be made for students who are still active whether they can graduate on time, fast, late or drop out with the implementation of data mining. The purpose of this study is to make a prediction of students graduation with C4.5 algorithm as a reference for making policies and actions of academic fields (BAAK) in reducing students who graduated late and did not pass.

From the research, the range of IPS from semester one to six, gender, origin of high school, and number of credits, can categorize the graduation of scholar to quick graduate, on time graduate, late graduate, or drop out, using data mining with C4.5 algorithm. The IPS of semester six is the most important factor to predict graduate result. From the test, the accuracy to predict graduation is 87.5%.

Keywords: Data mining, C4.5 algorithm, Universitas Multimedia Nusantara, prediction.