

ABSTRACT

E-learning is one of the technologies used to support the learning process in University level. With the university base that puts the technology forward, Telkom University applies learning using blended learning course concept that is combination of learning face to face (onsite) with interactive learning using information technology called e-learning. It is expected that with the concept of blended learning course the learning process at Telkom University becomes more effective and efficient. In this research will use classification process by using event log data which contains student activity history record when access in e-learning and will be done preprocessing stage to clean data first then done classification process to get information in the form of prediction model of graduation student course2 and will be done comparing the accuracy of some classification algorithms. In this research will be done prediction process to student data contained in e-learning. In this research algorithm used is algorithm C4.5, Naïve Bayes, and Bayesian Network. From the results of the research found that the algorithm C4.5 has the highest results with the average TP Rate 73%.

Keywords: e-learning, C4.5 algorithm, naive bayes algorithm, bayesian network algorithm, classification