Abstract

Academic performance is the assessment of the achievement of the process in the form of a final value has been obtained of each student. The assessment of the value of the components obtained courses that can be used as a parameter for cognitive presence, and the components of the courses on the liveliness as a parameter to a social presence. From the results of the process of the achievement of the final value certainly every student wants the acquisition of good results. But in fact it is difficult to know the students and potential target which belonged to fit the target achievement of the final value. The existence of the discussion forum as a place to do/media communication in the field of education, it is also important to support the teaching and learning process. Knowing of the existence of the discussion forum functionality, this research has a goal to see a picture of student response towards the effectiveness of the implementation of forum Edmodo, and also see how big the influence obtained against academic performance results After using these learning models specifically for this case study. This final task also do prediction through the academic performance of students, who can become a supporting tool for charting the students especially for this case study. Mapping can bring up a strategy to follow up on students who have predictable performance. Prediction of performance of students is important to know in order to do preventive measures related to the risk of a poor academic results. The classification method used to classify data forum automatically at the end of this task that is Naïve Bayes Classifier. Naïve Bayes Classifier is a classification method based on probability and Bayesian Theorem. As for the model used in this study is a Community of Inquiry (CoI) Model. In the end the final task of this research can be used to find out the influence model of CoI against an academic performance prediction with the cognitive and social student presence in the forum with Edmodo accuracy of 77.78%.

Keywords: *Academic performance, Cognitive Presence, Social Presence, Discussion Forums, Naive Bayes Classifier, The Community of Inquiry (CoI) Models*