

Prediksi Kelulusan Mata Kuliah Berdasarkan Aktivitas LMS Menggunakan Metode *Neural Network*

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Abstract

In an effort to support learning boldly, Telkom University uses the Learning Management System (LMS) as a platform to facilitate learning management. LMS has the advantage of being able to automatically carry out learning activities carried out by students, so that information on these activities can be used by lecturers to save earlier what students get. Based on that, this study builds a model that can predict course graduation based on the frequency of student activity in using the LMS. This is done with the aim that lecturers can find out earlier than students so that they can provide feedback to their students so that students can improve their learning performance and can pass the course better. The dataset used in this study is in the form of data from the Modeling and Database Implementation course using the Neural Network method. The results of this study indicate that the Neural Network method successfully passed course graduation based on student activities in using the LMS well. The performance generated by the Neural Network method in this study is quite good with the best accuracy rate generated at 73% for datasets with LMS activity features, and 85% for datasets with LMS activity features and data on quiz scores and assignments collected by students during half a semester.

Keywords: prediction, activity, learning managements system, neural network,
