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ADAPTIVE LEARNING RECOMMENDATION SYSTEM BASED ON DATA SCIENCE ON STUDENT MOTIVATION AND LEARNING ACHIEVEMENT

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Abstract

Advanced technology allows learning platforms to analyze student data in real-time and present appropriate learning material according to their level of understanding. One of the main advantages of adaptive learning is the personalization of learning. The application of this learning method provides better hope for the world of education by adapting to using sophisticated, renewable technological devices. Adaptive learning methods can also be applied to adaptive teaching by class teachers. The benefit is managing student relationship patterns in carrying out education properly and correctly. Data Science can also be used to build predictive models to predict student academic performance. This will of course be based on historical data and relevant variables. That way, education businesses will be helped in providing appropriate interventions, effective classroom settings, and additional support for students who have potential difficulties. Schools must provide adequate training programs for teachers and students to ensure that they can use educational technology effectively. In addition, schools must provide sufficient support for students who do not understand or have difficulty using educational technology.

Keywords: Adaptive Learning, Data Science, Motivation, Learning Achievement

INTRODUCTION

Education is the key to opening the door to a bright future for every individual. In the era of information technology which continues to develop

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