Data Analytics in Educational Management System

Abstract

Educational data analytics is used to study the data available in the educational field and bring out the hidden knowledge from it. Analytics is a process of discovering, analyzing, and interpreting meaningful patterns from large amounts of data. Data analytics relies on the techniques of data mining such as, classification, association, correlation, categorization, prediction, estimation, clustering, trend analysis and visualization. Predictive analytics can help in improving the quality of education by providing right information for decision makers to take better decisions. This paper focuses on the need for implementing the data analytics in educational system, suggests some strategies to use these needs. While implementing any
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system, the understanding of different components and their functions is necessary. In Educational management system, there are different components like technology, content, services, e-learner etc. This paper also discusses the key issues related with these components and their functions within the system such as services to be provided, content design criteria. The educational data analytics has potential to discover, analyze and predict meaningful knowledge from educational data which will help to education management system for flexible planning, execution and prediction for future.

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Index Terms

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Keywords
Data Analytics  Predictive Model  Educational Management System  Decision Making