Abstract

An Educational Data Portal (EDP) plays an important role in teaching and learning as it contains useful resources. Every big educational institution such as a university shall build an EDP soon or later. The aim of this study is to utilize Big Data solutions in building a Dashboard for an Education Data Portal. The proposed EDP is envisioned to be a core tool for all students and learning agencies, providing support for many types of views and content/instructional resources to allow effective data-driven decision-making for students, teachers, and the public, based on recent standards. It supports many features such as accessibility of data and content anywhere, scalability, extensibility of functionality, and extensibility of the technology architecture to support integration with the Shared Learning Infrastructure (SLI). The Data Dashboard is highly scalable and extensible architecture that will grow, if necessary, to meet the needs of students, and educators.
A Dashboard of an Education Data Portal using Big Data Solutions

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**Index Terms**

Computer Science

Information Sciences

**Keywords**

Big Data; MapReduce; Hadoop  Educational Data Portal