Chapter 9
Learning Analytics in the Perspective of Enhancing Students’ Performance

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ABSTRACT

Prior to the growing efforts for knowledge, predicting, and enhancing college students’ learning in instructional settings, learning analytics emerges as a candidate studies region to address such problems. Hence, several studies have been conducted; in addition, numerous conceptual and theoretical perspectives have been arisen. Moreover, quite exciting and beneficial results have been produced all through the learning analytics brief lifetime. However, a clean concept of numerous questions is still pending (e.g., What does getting to know analytics suggest? What are its backgrounds, related domain names, and underlying factors? Which can be the devices of its applications? and What about the developments and demanding situations to be taken into consideration?). That is why the chapter explains the learning analytics background, nature, including new and applicable methods, and a relation of risks and possibilities.
INTRODUCTION

Nowadays devices were used teaching and learning process where we are using devices as computer for one of major model have appeared in educational training, designing curriculum, providing lectures etc. This model encouraged the improvement of computer applications statically prepared to embody each the domain and the pedagogical expertise of the expert (Wenger1987). As result, its huge application and increment of users, an explosion of log data has demanded interdisciplinary views to understand how learning takes place. The purpose is enhancing and improving studying, as properly the study of various phenomena that happen in educational system inclusive of scholar retention and leaning success.

Learning Analytics is a tool which is improving learner success, as well as teaching efforts, where research questions, as the ones raised by Ochoa et al. (2014), are made: How do we measure the important characteristics of the learning process, and how do we use those measurements to improve it? Thus, Learning Analytics aims at developing models, methods, and tools that can be widely used, whose deliverables are reliable and valid at a scale beyond a course or cohort to provide benefits for learners and educators without distracting or misleading them.

LEARNING ANALYTICS?

Learning Analytics is an emerging and expanding field that relates to a fashion categorized via the term analytics. This filed pursues to head intensive of massive databases and past of the scope reached by traditional understanding discovery tactics. Its intention is to draw a extensive, profound, and multidimensional viewpoint that under a holistic attitude describes and predicts occasions and situations of a given area. Thus, in an effort to kingdom an ordinary concept of what analytics is, diverse sorts of analytics are recognized, inclusive of the ones oriented to educational settings.

CONCEPT OF ANALYTICS

Analytics is a singular branch this is gaining interest in know-how discovery. Analytics tries to gather valuable records, intelligently take a look at data, and discover useful know-how to support decision-making. According to Campbell et al. (2007):“Analytics employ massive records units, statistical techniques, and predictive modeling. It represents the exercise of mining institutional statistics to
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