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Patent Search

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Abstract:

An automation analytics system and method for building analytical models for an education application clusters data-availability segments of tribal students into seg clusters. Then, using a machine learning process, the automation analytics system and method creates analytical models for the segment clusters. Insights that are a potentially actionable can be uncovered with the help of the analytical models.

Complete Specification

Description: The proposed field of invention related to Data-adaptive education tool.

Background of the invention:

The mining of large amounts of data has become a popular topic of conversation in a variety of fields, including higher education. The vast majority of initiatives using mining include the construction of prediction models to stratify populations, such as students, based on risk ratings. Example: Yaskin et al., in their U.S. Patent Application Publication No. 2010/0009331 A1, describe a method for improving student retention rates by identifying students at risk and permitting students to raise flags if they believe they are at risk. This method allows students to raise flags for themselves if they believe they are at risk. Another example of this would be Purdue's Course which, according to Pistilli and Arnold's article "PURDUE SIGNALS Mining Real-Time Academic Data to Enhance Student Success," identifies students who may be in c by using a predetermined set of business principles. As another instance, Essa, Hanan, and Ayad's Canadian Patent Application Serial Number CA2782841 provides performance prediction systems that are based on user-engagement activities, social connectivity, attendance activities, participation, task completion, and prepara The existing techniques do not tie in insight-driven activities since they are focused on the accuracy of prediction and subsequent risk-based stratification. As a result are unable to offer a connection between the results of actions done and the insights gained from those actions. Instead, they approach the generation of insights a consequences of actions as two independent processes, which results in solutions that are ad hoc, suboptimal, and tribal in nature, making it impossible to adopt th worldwide throughout an organization. In addition, while the characteristics are designed to achieve the highest possible prediction accuracy, they often fall short o providing relevant insights that guide actions to get the most possible return on investment (ROI).

The various degrees of data availability for pupils is another issue that makes things more complicated. For instance, entering first-year students have relatively little

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Application Details

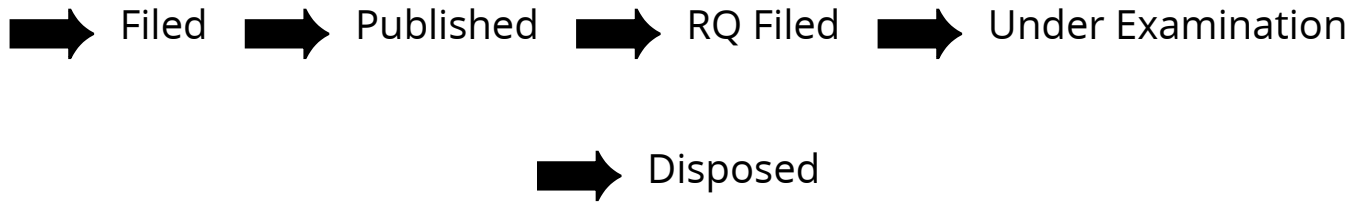
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