
Enhancing Continuous Student Assessment with InsightEd: A Data-Driven Approach to Academic Progress Monitoring

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Abstract

The project "InsightEd" is a groundbreaking invention in educational technology that aims to transform the process of monitoring and improving student performance through ongoing evaluation. The lecturers of Kolej Profesional MARA Bandar Penawar has created an initiative that presents a digital analytics dashboard. This dashboard is specifically designed to offer real-time feedback and data-driven insights into student progress. InsightEd's foundation is built upon the principle of utilizing Data Driven Decision Making (DDDM) to enable a more adaptable and responsive educational setting. Through the integration of many data elements, such as assignment scores, exam results, and attendance, students are given the ability to actively control and plan their academic progress using a comprehensive dashboard. In addition, educators can more efficiently recognize and tackle the specific and shared learning requirements of students. Initial findings suggest a substantial enhancement in student achievements, as demonstrated by notable improvements in average project scores for certain courses following the deployment. InsightEd further improves the customization of instruction and guarantees uniform teaching methods across various classrooms. This study examines the creation, execution, and influence of InsightEd, emphasizing its capacity to revolutionize educational methods by providing a clearer understanding of student achievement and enabling more knowledgeable teaching approaches.

Keywords : Educational Technology; Continuous Assessment; Data-Driven Decision Making (DDDM); Digital Dashboard; Real-Time Data Analysis
