

SMART TEACHING: LEARNING FRAMEWORK FOR HIGHER EDUCATION

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Abstract

The post-epidemic era has been impacted by the paradigm shift in teaching from the conventional classroom approach to the smart teaching learning environment. The emphasis of learning is gradually shifting from lecture-centered to student-centered, with students actively participating in the learning process rather than simply listening. Students primarily concentrate on what, when, and how they learn to emphasis their skills in order to adapt to the change in educational environment, thereby empowering students to engage with learning in a more profound way by developing their own personal learning plan. Every student or learner may differ in their ability to adapt to different learning styles, which helps them develop their skills and master them. To modernize education, an intelligence factor is added to the teaching-learning process by conceptually perceiving learner behavior. This study focuses on developing a framework that investigates the technological resources used to promote intelligent teaching learning, as well as factors that aid in assessing the effectiveness of the smart teaching-learning model. The strategies that connect learners and teachers in order to share knowledge and encourage individual understanding among students are the focus of this framework. This model's evaluation is based on student learning effectiveness, availability/access to learning resources, and cost effectiveness, as well as satisfaction of both students and faculty. This model has a significant impact on learning outcomes such as collaborative skills and life-long learning among the student community, as well as the development of student-centric learning approaches. The learning analytics dataset from kaggle is used in this study to correlate and analyze student behavior and interactions with the learning environment using visualization tools. The inferred student behavior and performance could be used to predict the need for improving the teaching process and design to ensure a personalized experience for learners, which improves their problem-solving ability. By shifting to constantly evolving technologies, educators primarily concentrate on constructing the student's journey towards competence

Keywords: Student behaviour, learning outcomes, smart learning environment, blended learning



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