Digital Transformation in Education: Challenges and Opportunities

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Abstract

Digital transformation in education is becoming an inevitable trend in today's technological era. Digital transformation in education is the process of applying digital technologies in teaching, learning, and educational management activities. Digital transformation is not simply about digitizing learning materials or uploading content to online platforms, but it also creates new approaches in education. The application of modern technological solutions not only optimizes teaching activities but also brings practical benefits to teachers, students, and educational institutions. This includes improving teaching methods, upgrading learning support tools, and enhancing students' learning experiences, as well as those involved in training. Recently, under the burden of the COVID-19 pandemic, many institutes have to change their entire teaching systems to online learning to ensure their students' learning is not interrupted. The importance of E-Learning is striking in addressing some of the major challenges in contemporary education. E-Learning opens the door to educational access to segments of the population that were previously difficult to reach, such as adults returning to school, part-time workers, or students in remote areas. This article offers an overview of the digital transformation taking place in education sector, various examples of digital transformation in education and their application, the benefits that these innovations offer, the challenges and barriers and finally the solutions to support the digital transformation process in education.

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1