

Adaptive Learning Technologies: Personalizing Education to Meet the Needs of All Learners

Ms. Nadar Arul Amaladas Catherine¹ and Dr. Rampratap Saini²

Research Scholar, Department of Education¹

Assistant Professor, Department of Education²

Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan, India

Abstract: *Adaptive learning technologies represent a transformative approach to education, offering personalized learning experiences that cater to the diverse needs of students. By leveraging data-driven insights and artificial intelligence, these technologies adjust instructional content and strategies in real-time based on individual student performance and learning preferences. This paper explores the potential of adaptive learning technologies to enhance educational outcomes, examines the benefits and challenges associated with their implementation, and discusses future directions for research and practice in personalized education*

Keywords: adaptive learning, personalized education, educational technology, student outcomes, instructional design