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# Artificial Intelligence and Resilience in Teaching Learning Process

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# Academic Resilience

Issues, Challenges  
and  
Strategies



**Prof. (Dr.) Adnan Khan Lodi**  
**Dr. Geetika Nidhi**  
**Dr. Divya R. Panjwani**

# **Academic Resilience**

## **Issues, Challenges and Strategies**

**Prof. (Dr.) Adnan Khan Lodi**  
**Dr. Geetika Nidhi**  
**Dr. Divya R. Panjwani**

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# Artificial Intelligence and Resilience in Teaching-Learning Process

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### ABSTRACT

Artificial Intelligence systems need to be resilient to various factors, including data biases, adversarial attacks, system failures, and changing environments. Resilience refers to the ability to bounce back or recover quickly from difficult or challenging situations. It is the capacity to adapt and thrive in the face of adversity, stress, or trauma. Resilience involves having a positive mindset, being able to problem-solve effectively, and having strong emotional and mental well-being. Resilience is not about avoiding or denying difficult experiences, but rather about facing them head-on and finding ways to overcome them. It is a skill that can be developed and strengthened through various strategies, such as building a support network, practicing self-care, setting realistic goals, and cultivating a positive outlook. Resilience is important in all aspects of life, including personal relationships, work, and overall well-being.

**Keywords-** Artificial Intelligence, Resilience, Teaching Learning Process

### INTRODUCTION

Artificial Intelligence has the potential to revolutionize education in numerous ways, offering opportunities to enhance teaching, learning, and administrative processes. There are different roles of Artificial Intelligence in Education. Artificial Intelligence can analyse individual student data and learning patterns to tailor educational content and pace to each student's needs. This allows for a more personalized learning experience, helping students to grasp concepts more effectively and at their own pace. Similar to personalized learning, adaptive learning platforms use Artificial Intelligence algorithms to adjust the difficulty and content of lessons based on a student's progress and performance. This ensures that students are appropriately challenged and can achieve mastery of concepts. Artificial Intelligence powered virtual tutors and chatbots can provide instant assistance to students, answering questions, explaining concepts, and offering guidance outside of classroom hours. This can alleviate the pressure on teachers and provide students with timely support. Artificial Intelligence can analyse vast amounts of educational data to identify trends, patterns, and areas of