Impact of Artificial Intelligence (AI) on Education: Enhancing Learning Opportunities and Addressing Ethical Challenges

Shahriyar Hossain[1]
[2]MD.Foyez Ahmed, MD.Shakil Ahmed, Chowdhury Taznin karim Baria, and MD.Toriqul Islam Jony
[1]Student, Department of Electrical & Electronics Engineering
[2]Student, Department of Computer Science
American International University-Bangladesh, Dhaka 1229,Bangladesh
22-47567-2@student.aiub.edu, 23-50848-2@student.aiub.edu,22-49258-2@student.aiub.edu,23-50847-2@student.aiub.edu,
22-49283-2@student.aiub.edu

Md.Mortuza Ahmmed
Associate Professor,Department of Mathematics
American International University – Bangladesh
Dhaka 1229, Bangladesh
mortuza@aiub.edu

Abstract

The advent of artificial intelligence (AI) is influencing the traditional way of learning. This paper explores statistical data about different ways of learning using AI, its advantages and disadvantages, including ethical dimensions.This project is going to analyze the new ways of learning, basic outcomes of students and the ethical issues on educational assessment etc.The statistcal data of this paper is collected from different perspectives of people by primary data collection process.A survey was done among students to understand and do statistical analysis. This survey revealed strong support for personalized learning platforms, suggesting their potential to improve student outcomes. Besides, also some ethical concerns raised by the participants.The integration of artificial intelligence (AI) into the educational landscape is reshaping the way students learn, with promising benefits in terms of personalized learning and improved academic outcomes. The findings highlight ethical concerns, particularly regarding data privacy, fairness in assessments, and the potential for bias in AI algorithms. These issues must be carefully addressed to ensure that AI technologies are being developed and deployed in ways that are fair and understandable to all.

Keywords
Artificial Intelligence (AI), Education, Ethical, Data Privacy and assessments

Biographies
Shahriyar Hosssain is an undergraduate student in Department of Electrical and Electronic Engineering at American International University-Bangladesh, Dhaka, Bangladesh

MD.Foyez Ahmed is an undergraduate student in Department of Computer Science and Engineering at American International University-Bangladesh, Dhaka, Bangladesh.

MD.Shakil Ahmed is an undergraduate student in Department of Computer Science and Engineering at American International University-Bangladesh, Dhaka, Bangladesh.

Chowdhury Taznin karim Baria is an undergraduate student in Department of Computer Science and Engineering at American International University-Bangladesh, Dhaka, Bangladesh.

MD.Toriqul Islam Jony is an undergraduate student in Department of Computer Science and Engineering at American International University-Bangladesh, Dhaka, Bangladesh.

Md. Mortuza Ahmmed is an Associate Professor of Department of Mathematics at American International University – Bangladesh. His research interests are mainly application based -- how to apply different statistical techniques in different sectors to perform more accurate and precise analyses as well as projection. His core academic research areas are public health, education and machine learning. One of his primary goals concerning students is to assist them with technical knowledge to turn their thoughts into successful outcomes to form a modern society.