

## IMPLICATIONS OF TECHNOLOGY TRENDS IN EDUCATION: USING BIG DATA FOR LEARNING ANALYTICS

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### **Abstract**

Big Data technology trends have a significant impact on education. With its ability to collect, store, and analyze large amounts of data, Big Data can provide valuable insights into the learning process and help improve its effectiveness. Big Data has a significant role and contribution in learning analytics. With its ability to collect, store, and analyze large amounts of data, Big Data can provide valuable insights into the learning process and help improve its effectiveness. The use of Big Data technology in education has significant implications in learning analytics. The use of Big Data technology in education has the potential to improve learning effectiveness, personalize learning, data-based decision making, develop relevant curricula, and monitor and evaluate the learning process. Big Data has an important role and contribution in learning analytics. With its ability to collect, store, and analyze large amounts of data, Big Data can provide valuable insights into the learning process and help improve its effectiveness.

**Keywords:** Implications, technology trends, big data, learning analytics

### **INTRODUCTION**

Huda et al., (2021) stated that the development of technology in the ethical aspect of the world of education has brought significant changes in the way we learn and teach. Technology is everything that makes it easier for humans. Technology is not just science with the knowledge that we think of such as machines, airplanes or other advanced technologies, but also an organizational structure, social structure, and power that crosses. The essence of technology itself is the "hand" that has the power to control a science owned by humans.

The control of science owned by humans if applied with the development and research carried out will produce technology that provides benefits for human life. Technology is also dilactelic which can solve a problem faced by an individual, but these problems will produce new problems and must be solved by other technologies. Science and technology are to make human life easier in various fields of life (Undavia et al., 2017). The existence of