

Forecasting the Future Implications of ChatGPT Usage in Education Based on AI Algorithms

Authors : Yakubu Bala Mohammed, Nadire Chavus, Mohammed Bulama

Abstract : Generative Pre-trained Transformer (ChatGPT) represents an artificial intelligence (AI) tool capable of swiftly generating comprehensive responses to prompts and follow-up inquiries. This emerging AI tool was introduced in November 2022 by OpenAI firm, an American AI research laboratory, utilizing substantial language models. This present study aims to delve into the potential future consequences of ChatGPT usage in education using AI-based algorithms. The paper will bring forth the likely potential risks of ChatGBT utilization, such as academic integrity concerns, unfair learning assessments, excessive reliance on AI, and dissemination of inaccurate information using four machine learning algorithms: eXtreme-Gradient Boosting (XGBoost), Support vector machine (SVM), Emotional artificial neural network (EANN), and Random forest (RF) would be used to analyze the study collected data due to their robustness. Finally, the findings of the study will assist education stakeholders in understanding the future implications of ChatGPT usage in education and propose solutions and directions for upcoming studies.

Keywords : machine learning, ChatGPT, education, learning, implications

Conference Title : ICAIE 2024 : International Conference on Artificial Intelligence and Education

Conference Location : Taipei, Taiwan

Conference Dates : March 04-05, 2024