Integrating Large Language Models into Education: Revolutionising Teaching and Learning

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ABSTRACT Education sector is currently standing at the precipice of possibilities with the advent of Large Language Models (LLMs) and Artificial Intelligence (AI) technologies. AI has recently infiltrated educational processes to improve students' learning outcomes with the help of fluent chat bots such as ChatGPT, based on LLMs. This study explores the applications of LLMs in education shedding light on classroom support, flexible teaching and educational technology. This study employed descriptive review of existing literature focusing key trends on AI-driven pedagogy. The study identified both applications and potential risks involved such as data privacy, high dependency and ethical implications due to AI implementation in educational practices. The study presents practical recommendations of LLMs. The study concludes that LLM integration in education aids the educators, researchers and policymakers to transform the pedagogy and teaching methods to foster an effective, individualised learning environment for the students in future.