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(57) Abstract :

Nowadays, verifying the genuineness of educational certificates can be a hard task since most documents are fake. Common methods employed for certificate verification are not always transparent or secure or efficient. In contrast, blockchain technology is a decentralized system that cannot be changed. This study delves into the feasibility and implications of harnessing blockchain technology to enhance certificate verification within the education sector. As fake educational certificates proliferate, existing verification methods often fall short in terms of transparency, security, and efficiency. Blockchain, as a decentralized and immutable ledger, offers promising solutions to address these challenges. Through a comprehensive literature review, case studies analysis, and stakeholder perspectives, this research investigates the merits, demerits, and implementation challenges of blockchain-based certificate verification. Findings reveal that blockchain technology holds significant potential to revolutionize certificate validation by enhancing transparency, security, and efficiency. However, challenges such as technical barriers, regulatory constraints, and adoption hurdles must be carefully navigated. The study concludes with recommendations for further research and practical implications for stakeholders in the education sector, emphasizing the transformative impact of blockchain technology on certificate verification processes.

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