

(54) Title of the invention : Blockchain-Enabled Secure Academic Certificate Verification System

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(57) Abstract :

Blockchain-Enabled Secure Academic Certificate Verification System ABSTRACT: Because of features like immutability, transparency, distributed storage, and decentralized control, blockchain systems which do not rely on trust for electronic transactions have become a popular technology. Verification of skills and student credentials are essential for employment applications and other uses. The requirement for reliable, transparent, and impenetrable mechanisms to validate academic credentials is crucial in an increasingly virtual world. Conventional methods for issuing and verifying certificates are vulnerable to fraud, loss, and delays. By providing a decentralized, unchangeable, and secure platform for storing and certifying student credentials, blockchain generation presents a viable solution to those challenging circumstances. Since academic certificate fraud directly impacts the legitimacy and dependability of academic credentials, it has grown to be a major worry for colleges, organizations, and businesses globally. Conventional certificate verification techniques lack a centralized, tamper-resistant validation mechanism, making them mostly manual, laborious, and vulnerable to mistakes or manipulation. By enabling the decentralized and unchangeable storage of certificate data, blockchain technology provides a ground-breaking solution that guarantees transparency and trust. Improved security and organizational performance were observed by incorporating the prototype, and the developed system's usability and efficacy led to high levels of satisfaction from employers, teachers, and students. It has been noted that the blockchain system is useful in this sense since it can readily link and work with the current educational systems while offering scalability and pseudonymity without sacrificing security.

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