

Blockchain Technology in Academic Credentials

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Abstract. This paper discusses the potential of blockchain technology to revolutionize the management of academic credentials. By providing a secure and transparent platform, blockchain can enhance the verification and authenticity of educational qualifications. The article examines various blockchain applications in education, highlighting their benefits and challenges. Issues such as scalability and regulatory compliance are addressed. The findings suggest that blockchain can significantly streamline credentialing processes, offering a reliable solution for educational institutions and employers alike.

Keywords: blockchain, academic credentials, verification, educational technology, authenticity

Introduction

Blockchain technology, known for its secure and transparent nature, has the potential to transform the management of academic credentials. This paper explores how blockchain can provide a tamper-proof system for storing and verifying educational qualifications. We discuss various blockchain applications in the educational sector, focusing on their ability to enhance the credibility and efficiency of credentialing processes. By analyzing case studies, we highlight both the advantages and potential hurdles of implementing blockchain in education. Challenges such as scalability and regulatory compliance are considered, emphasizing the need for careful planning and collaboration among stakeholders. The adoption of blockchain could offer a robust solution for ensuring the authenticity and accessibility of academic records.

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