

Blockchain Technology in Cybersecurity

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Abstract. This article explores the application of blockchain technology as a means to enhance cybersecurity protocols across various digital platforms. Blockchain's inherent characteristics of decentralization and transparency position it as a robust tool for establishing secure and immutable records. The study examines blockchain's potential to revolutionize conventional security measures, addressing key vulnerabilities and threats in the digital landscape. By providing an unalterable ledger of transactions, blockchain increases trust and integrity within cybersecurity frameworks, making it an exciting area for future research and innovation.

Keywords: blockchain, cybersecurity, security, technology, digital

Introduction: Cybersecurity remains a critical concern in the digital age, with increasing threats and vulnerabilities posing significant risks to individuals and organizations alike. Traditional security measures are proving insufficient in the face of sophisticated cyber-attacks and data breaches. Blockchain technology, with its decentralized and transparent nature, offers a novel approach to bolstering cybersecurity defenses. This paper investigates how blockchain can be leveraged to enhance security protocols, providing a detailed analysis of its capabilities and limitations. Through case studies and theoretical exploration, we illustrate how blockchain can create secure, transparent, and tamper-proof systems, potentially transforming the cybersecurity landscape. [This is a preliminary version. To read the full version of the article, please purchase a subscription.](#)

References

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