Blockchain Technology for Secure and Transparent Transactions: A Cybersecurity Perspective

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Abstract:
In a period set apart by the expansion of computerized exchanges, guaranteeing security and straightforwardness has become central. Customary incorporated frameworks have shown weaknesses that open delicate information to likely breaks. This paper dives into the groundbreaking capability of blockchain innovation from a network safety stance. Blockchain, a decentralized record framework, utilizes cryptographic strategies and agreement instruments to guarantee the trustworthiness and security of exchanges. Through an inside and out investigation of blockchain's basics, this study explains its ability to relieve security chances and lay out a straightforward exchange climate. It examines the permanent idea of the blockchain record, cryptographic safety efforts, and the job of brilliant agreements in robotizing secure exchanges. Contextual analyses from different businesses highlight the reasonable uses of blockchain in strengthening network safety. While blockchain offers a vigorous structure, difficulties, for example, 51% assaults and security concerns require basic assessment. This paper likewise guesses future patterns and arising advances that could additionally improve the cooperative energy among blockchain and online protection. The discoveries introduced in this backer for the mix of blockchain innovation as a critical device in sustaining the security and straightforwardness of computerized exchanges in a hyperconnected world.

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