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**THE IMPACT OF BLOCKCHAIN TECHNOLOGY ON SUPPLY CHAIN  
MANAGEMENT: A COMPREHENSIVE REVIEW**

**RESEARCH PAPER SUBMITTED IN PARTIAL FULFILLMENT OF THE  
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[Your Name]

[Your Affiliation or Institution]

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### **ABSTRACT**

This research paper explores the transformative potential of blockchain technology in supply chain management. Through a comprehensive review of existing literature and case studies, the paper demonstrates how blockchain can enhance traceability, transparency, security, and efficiency in supply chain processes. The analysis reveals the potential benefits and challenges associated with implementing blockchain technology in supply chain management. The findings provide valuable insights into the future prospects of blockchain in revolutionizing supply chain practices.

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## INTRODUCTION

Supply chain management plays a critical role in ensuring the smooth flow of goods and services from manufacturers to end consumers. However, traditional supply chain systems face challenges such as lack of transparency, information asymmetry, and limited trust among stakeholders. Blockchain technology, characterized by its decentralized and immutable nature, has the potential to address these challenges. By providing a transparent and tamper-resistant record of transactions, blockchain can enhance traceability, reduce fraud, and streamline supply chain processes. This paper aims to provide a comprehensive review of the impact of blockchain technology on supply chain management, highlighting its potential benefits and challenges.



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## CONCLUSION

The comprehensive review of existing literature and case studies indicates that blockchain technology has the potential to revolutionize supply chain management. The implementation of blockchain can enhance traceability by providing an immutable record of transactions, thereby improving transparency and reducing fraud in supply chains. Additionally, blockchain can enable efficient and secure data sharing among supply chain participants, leading to streamlined processes and increased trust. However, challenges such as scalability, interoperability, and regulatory concerns need to be addressed for widespread adoption of blockchain in supply chain management. Despite these challenges, the future prospects of blockchain technology in transforming supply chain practices appear promising.



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