## IJARSCT



International Journal of Advanced Research in Science, Communication and Technology



International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 8, March 2025

## **Blockchain Unlocked : A Complete Learning Guide**

Sagar Laxman Bhor, Omkar Sampat Naykodi, Dipak Vilas Shelkande Shubham Rohidas Mindhe, Jay Santosh Maskare, Siddhi Ashok Kokane Shankarrao Butte Patil B.Sc. IT College, Junnar, Maharashtra, India

**Abstract:** Blockchain technology has revolutionized digital transactions, data security, and decentralized applications. This review explores the fundamental aspects of blockchain, including its structure, consensus mechanisms, and real-world applications. Blockchain's decentralized and tamper-proof nature has made it a key technology in finance, healthcare, supply chain, and other industries. This paper provides insights into the benefits, challenges, and latest trends in blockchain adoption, making it a valuable resource for understanding its impact and future potential.

**Keywords:** Blockchain, Decentralization, Distributed Ledger, Cryptocurrency, Smart Contracts, Consensus Mechanism, Security, Transparency, Peer-to-Peer Network, Immutability

Copyright to IJARSCT www.ijarsct.co.in

