

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