



# Mastering Blockchain Development



"Master the Art of Decentralized Solutions"



UPSKILLMENT



# INTRODUCTION

The Blockchain Development Course is meticulously designed to provide learners with a profound understanding of blockchain technology and its practical applications. Whether you're a beginner eager to break into this transformative field or an experienced professional seeking to enhance your expertise, this course offers a robust foundation and advanced insights into blockchain systems.

The curriculum emphasizes hands-on learning through real-world projects and use cases, ensuring participants gain not only theoretical knowledge but also the technical skills required to succeed in the industry. By the end of the course, learners will be fully equipped to design, develop, and deploy secure blockchain-based solutions across various platforms.

Duration: 28 Hours

Mode: Live instructor led (Weekend as well as weekday batches)

Self Paced also available

## Module 1: Introduction to Blockchain and Cryptography

- Learn blockchain fundamentals like decentralization, transparency, and security.
- Explore the history and evolution of blockchain technology.
- Understand cryptography basics, including hash functions and digital signatures.

## Module 2: Blockchain Architecture and Development Tools

- Dive into blockchain structure, including blocks, transactions, and DLT.
- Understand consensus mechanisms like PoW, PoS, and DPoS.
- Set up development tools such as Truffle, Ganache, and Metamask.

## **Module 3: Smart Contracts and Decentralized Applications (dApps)**

- Learn how smart contracts work and automate transactions.
- Develop with Solidity to write and deploy smart contracts.
- Build decentralized apps (dApps) using Web3.js and React.js.

## **Module 4: Blockchain Platforms and Real-World Applications**

- Explore platforms like Ethereum, Hyperledger, and Solana.
- Discover real-world applications in finance, healthcare, and more.
- Learn about tokenomics and minting NFTs.

## **Module 5: Blockchain Security and Advanced Concepts**

- Study security best practices to protect against common vulnerabilities.
- Learn auditing and testing techniques for secure blockchain apps.
- Understand Layer 1/2 scalability, interoperability, and ZKPs.

## **Module 6: Future Trends and Blockchain Innovations**

- Explore Web 3.0, the Metaverse, and blockchain's role.
- Learn about Central Bank Digital Currencies (CBDCs).
- Discover innovations shaping blockchain's future in privacy and security.

# Blockchain Development Training Features :

- Flexible Learning and Rescheduling Options
- Tailor your learning schedule with weekday or weekend classes and morning or evening sessions to fit your commitments. Missed a session? Easily reschedule and join a batch that matches your availability.
- Personalized Learning Support
- Benefit from a dedicated Learning Manager who provides personalized guidance, resolves your queries, and supports you throughout the course to ensure a seamless learning experience.
- Practical and Job-Focused Training
- Gain hands-on experience through industry-relevant projects and real-world simulations. Enhance your employability with dedicated job assistance, including resume building, interview preparation, and placement support.
- Industry-Recognized Certification
- Earn a prestigious certification endorsed by top organizations, validating your expertise and giving you a competitive edge in the global job market.

# Blockchain Training Outlook

- **Market Growth:** The global cryptocurrency market has reached a \$3.2 trillion capitalization, with blockchain technology continuing to drive major investment and adoption across sectors (Reuters).
- **Regional Adoption:** India leads in cryptocurrency adoption, while the Central and Southern Asia and Oceania regions, including India and Indonesia, are at the forefront globally (Reuters).
- **Blockchain in Finance:** Financial institutions are increasingly using blockchain for asset tokenization and 24/7 transaction solutions, with major players like BlackRock and Morgan Stanley investing in blockchain-powered platforms (Cinco Dias).

# LET'S CONNECT

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