



Adyapan School

Blockchain & Bitcoin



Duration - 2 months

Industry
Certification



Skill India Certified

250+
Partner Companies

Master decentralized systems and digital currency.

From cryptography to decentralized finance - become industry-ready.

This immersive Blockchain & Bitcoin program takes you beyond foundational concepts into real-world decentralized systems and digital currency applications. Learn blockchain architecture, Bitcoin fundamentals, consensus mechanisms, smart contracts, and crypto transactions through hands-on projects and guided simulations. With a strong focus on practical implementation and emerging industry use-cases, you'll graduate with the ability to understand, build, and interact with secure blockchain networks and confidently navigate the evolving world of digital assets.

8

WEEKS

30+

PROGRAMS OFFERED

20,000+

STUDENTS

250+ PARTNERED COMPANIES

ABOUT ADYAPAN SCHOOLS

Where education meets real-world impact

Not just a course — a platform to launch
your career.

Adyapan Schools was built with a single conviction:
learning works best when it happens in the real world.
We partner with top companies, mentors, and industry
platforms to ensure every student graduates with a
portfolio of work that speaks louder than a certificate.

Our programs combine rigorous coursework with live
client projects, giving you the skills and proof-of-work
that employers actually want.

MISSION

To equip ambitious learners with
practitioner-level digital
marketing skills through mentor-
led, project-based education that
bridges the gap between learning
and earning.



VISION

To be India's most trusted
launchpad for the next generation
of marketing leaders — defined
not by degrees but by the real
work.



Everything you need to grow fast

PROGRAM HIGHLIGHTS



Live Industry Projects

Work on campaigns for real brands alongside your coursework. Build portfolio projects that prove your expertise to employers.



1-on-1 Mentorship

Dedicated mentors from Google, Microsoft, Mastercard and more. Get personalized guidance and industry connections.



AI-Powered Marketing

Learn cutting-edge AI tools alongside evergreen fundamentals. Stay ahead of the curve in a rapidly evolving landscape.



Dual Certification

Earn both a Course Completion and Internship Certificate – accredited by Skill India Digital Hub and NSDC.



Internship Guarantee

Graduate with an internship completion certificate from a live brand project. Concrete, resume-ready proof of work.



Industry Network

Join a network of alumni at Amazon, Google, Adobe, Microsoft. Access exclusive hiring events and referral opportunities.

8 weeks. 8 modules. Infinite impact.

WEEK 1

Fundamentals in Blockchain Technology

- Discussion of Curriculum.
- Evolution of blockchain and decentralization concepts.
- Distributed ledgers, peer-to-peer networks and consensus mechanisms.
- Blockchain structure: blocks, chains, and Merkle trees.
- Cryptography, hashing (SHA-256), and digital signatures.
- Overview of Blockchain 1.0, 2.0, 3.0 (Bitcoin, Ethereum, etc.).
- Proof of Work (PoW), Proof of Stake (PoS) and emerging algorithms.
- Real-world applications: finance, supply chain, healthcare and governance.



WEEK 2

Bitcoin & Cryptocurrency Ecosystem

- Bitcoin architecture and mining process
- Transaction validation, wallets and exchanges
- Lightning Network and Bitcoin scalability
- Ethereum and EVM fundamentals
- Gas, transactions and Ethereum 2.0 (Proof of Stake & Sharding)
- Smart contract basics and Solidity environment setup (Truffle, Ganache, MeraMask)
- Overview of DeFi protocols, staking and yield farming



WEEK 3

Smart Contracts & DApp Development

- Smart contract structure and deployment on Ethereum testnet
- Solidity programming - syntax, logic and functions
- Decentralized applications (DApps) using Web3.js & React
- Layer 2 integrations for cost and speed optimization
- IPFS for decentralized storage
- Token creation: ERC-20, ERC-721, ERC-1155
- Building a tokenized asset / voting DApp



8 weeks. 8 modules. Infinite impact.

WEEK 4

NFTs, DeFi & Blockchain Security

- NFTs and digital ownership: ERC-721 vs ERC-1155
- NFT deployment and use cases in gaming and meta verse
- DeFi protocols (Synthetix, Yearn, Balancer)
- Smart contract auditing and vulnerability detection (Reentrancy, Overflow)
- Zero-knowledge proofs and privacy mechanisms
- Security audits and bug bounty processes
- Regulations and compliance (GDPR, FATF, SEC)



WEEK 5

Cross-Chain & Advanced Blockchain Systems

- Cross-chain protocols (Polkadot, Cosmos, Chainlink)
- Blockchain interoperability and bridges (Ethereum → BSC)
- Decentralized Identity (DID) and verifiable credentials
- Supply chain and healthcare applications using blockchain
- Layer 2 scaling (Optimistic & zk-Rollups)
- Exploring CBDCs and government-backed digital currencies



WEEK 6

Web 3.0, Metaverse & Future of Blockchain

- Decentralized web and identity management
- Blockchain integration with AI, IoT, and Cloud (Baas)
- Metaverse fundamentals and NFT integration
- DAOs (Decentralized Autonomous Organizations)
- Quantum computing risks and blockchain security
- Future trends: Web3, DeFi 2.0 and sustainable consensus



8 weeks. 8 modules. Infinite impact.

WEEK 7

Full-Stack Blockchain Development

- Building full- stack DApps: smart contracts, frontend, backend integration
- IPFS integration and data storage on decentralized networks
- Unit testing and debugging using Truffle and Ganache
- Gas optimization and deployment to the Ethereum mainnet
- Security best practices and real-world deployment strategies



WEEK 8

Capstone Project & Industry Readiness

- Final project: End-to-end DApp development (NFT/DeFi/Supply Chain)
- Presentation and deployment to public blockchain
- Understanding blockchain career paths and certifications
- Networking and community contribution (GitHub, Web3 foundations)
- Project defense and mentor feedback



Adyapan School

WHO THIS IS FOR

This course is perfect for

Students & Career Starters

Aspiring Blockchain & Web3 Developers

Computer Science, IT & Software Engineering Students

Developers Exploring Smart Contracts & (dApps)

Working Professionals in Tech, Finance & Startups

Crypto, DeFi & Digital Asset Enthusiasts

CERTIFICATIONS



ALUMNI NETWORK

Our alumni work at world-class companies

Amazon

Adobe

Google

Autodesk

Microsoft

Dalme

Your career switch is one click away.

Ready to begin? Apply at adyapanschool.com or email us at support@adyapan.com

Apply Now