QUANTUM-AI
THE SCHOOL OF DATA AND AI

BLOCKCHAIN+ GENAI

INDUSTRY-ORIENTED | PROJECT-BASED | CAREER-FOCUSED

Welcome to Blockchain GenAI

The Blockchain + GenAI course is designed to help learners understand how secure decentralized systems can be combined with intelligent AI technologies. The program introduces the fundamentals of Blockchain, including blocks, transactions, cryptography, smart contracts, and decentralized applications. Students also explore the capabilities of Generative Artificial Intelligence to automate processes, analyze data, and build intelligent solutions.

Through practical projects and real-world examples, learners gain hands-on experience with blockchain platforms and AI tools. By the end of the course, students can develop innovative applications that integrate blockchain security with AI-powered automation and data-driven decision making.



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WHY QUANTUMAI?

Quantum AI combines advanced computing and artificial intelligence to solve complex problems faster and smarter. We focus on future-ready skills, practical learning, and real-world applications in Data, AI, and emerging technologies. Our industry-oriented training prepares students to lead innovation and build successful careers in tomorrow's technology-driven world.

COURSE OVERVIEW

The Blockchain + GenAI course introduces learners to the powerful combination of decentralized technology and intelligent AI systems. Students explore the fundamentals of Blockchain, including blocks, cryptography, smart contracts, and decentralized applications. The program also covers the capabilities of Generative Artificial Intelligence, focusing on AI-driven automation, data generation, and intelligent decision-making. Through hands-on exercises and practical projects, learners understand how blockchain ensures secure data management while GenAI enhances system intelligence. By the end of the course, participants can design innovative solutions that combine blockchain security with AI-powered applications for industries like finance, supply chain, healthcare, and digital services.



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WHAT YOU WILL LEARN

Introduction to Blockchain

- Basics of Blockchain
- History and evolution of blockchain
- Centralized vs Decentralized systems
- Key features: transparency, immutability, and security

Cryptography Fundamentals

- Basics of cryptography
- Hash functions and digital signatures
- Public key and private key concepts

Blockchain Architecture

- Blocks, chains, and nodes
- Peer-to-peer networks
- Consensus mechanisms (PoW, PoS)

Cryptocurrency Concepts

- Introduction to Bitcoin
- Cryptocurrency transactions
- Digital wallets and exchanges

Smart Contracts

- Concept of Smart Contract
- Introduction to Ethereum
- Smart contract development basics

Decentralized Applications (DApps)

- Architecture of DApps
- Blockchain platforms for DApps

Real-world use cases

Blockchain Development Tools

- Development environments
- Testing and deployment basics

Blockchain Use Cases

- Finance and banking
- Supply chain management
- Healthcare and identity management

Blockchain Security & Challenges

- Security considerations
- Blockchain limitations and scalability issues

Blockchain Project

- Real-world blockchain application development
- Final project presentation.



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BUILD SCALABLE APPLICATIONS

Learn BlockChain with QuantumAI

Get In Touch

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