



February 08-09, 2025 | Online

# New York's EduBlockathon 2025

Blockchain for Education - Unlocking Trust and Security in the AI Era

## Empowering Education Through Blockchain Hackathon

Welcome to the Blockchain for Education Hackathon, a platform for innovation where technology meets learning. Dive into the world of decentralized finance (DeFi) and blockchain to revolutionize education, certifications, and learner engagement. Join us to create cutting-edge solutions that reward learning, ensure secure certifications, and promote global access to high-quality education.

### What's the Hackathon About?

This hackathon challenges participants to design and develop a blockchain-powered learning ecosystem with the following features:

- ✔ **Learner Incentives:** Reward learners for completing courses, reaching milestones, and engaging with educational content.
- ✔ **Decentralized Content Marketplace:** Empower content creators to share resources, sell materials, and earn rewards in a decentralized marketplace.
- ✔ **Training Provider Tools:** Build tools for training providers to certify learners, manage resources, and incentivize quality education delivery.
- ✔ **Credential Verification:** Create immutable, shareable, and secure blockchain-based digital certifications.
- ✔ **Community Governance:** Implement token-based decision-making for course approvals, curriculum changes, and platform updates.

### Core Technologies & Tools

Participants will work with the following technologies and frameworks:

- ✔ **Blockchain and Smart Contracts:** ERC-20 token standard for digital assets, Solidity for developing decentralized logic, Layer-2 solutions (e.g., Polygon or similar) for scalability and microtransactions.
- ✔ **Frontend Development:** Frameworks like React.js and Next.js for building decentralized apps (DApps), Wallet integrations with MetaMask or WalletConnect for seamless user interactions.
- ✔ **Backend Development:** Node.js, Nest.js, and Express for APIs and off-chain functionality, Integration with AWS S3 or IPFS for secure file storage.
- ✔ **Digital Credentialing:** Blockchain-based credentialing for authenticity, JWT or similar standards for secure and verifiable credential sharing.
- ✔ **Marketplace Functionality:** Decentralized marketplaces with peer-review mechanisms for quality control.
- ✔ **Governance Mechanisms:** DAO frameworks (e.g., Aragon, Snapshot) to manage stakeholder decision-making.

## Key Challenges Participants Will Tackle

- ✔ Build a **reward system** for learners using blockchain tokens, including options for discounts or premium resource access.
- ✔ Develop a **decentralized content marketplace** where educators and creators transact using blockchain-based tokens.
- ✔ Enable training providers to certify learners and maintain high standards through performance-based incentives.
- ✔ Create scalable, cost-effective solutions for **credential verification** and microtransactions.
- ✔ Implement a **community-driven governance system** with token staking and voting mechanisms.
- ✔ Explore gamification features to boost engagement and enhance user experience.

## What to Expect on Hackathon Day

Participants will:

- ✔ Collaborate to build a Minimum Viable Product (MVP) showcasing key features.
- ✔ Write and deploy smart contracts for token rewards, marketplaces, and governance.
- ✔ Leverage blockchain for **secure, verifiable certifications** and learner incentives.
- ✔ Present their solutions in a live demo and gain insights from experts.

# Event Schedule

## Day 1

11:00 AM

### Hackathon Briefing

- Welcome and Kickoff
- Overview of EduBlockathon 2024.
- Problem statements unveiled by mentors.
- Explanation of rules, judging criteria, and submission process.

11:30 AM

### Mentor Q&A Session

- Dedicated time for participants to ask questions about problem statements, tools, and frameworks

12:30 PM

### Hackathon Begins

- Coding and Development
- Overnight - Hackathon continues...

## Day 2

All Day - Hackathon Continues

4:00 PM

- Final Development & Testing Teams work on finalizing their prototypes.
- Mid-point check-ins with mentors.
- Dedicated testing phase to ensure solutions are functional and ready for submission.

06:30 PM

- Project Submission Deadline
- All teams must submit their final projects by this time.

07:00 PM

- Panel Discussion
- Blockchain for Education: Unlocking Trust and Security in the AI Era
- Insights from industry leaders and academicians.

08:00 PM

- Award Ceremony
- Announcement of winners.



**Join us to transform education through blockchain and make a lasting global impact!**

For more Details visit: [www.aicerts.ai/events](http://www.aicerts.ai/events) or contact us at [events@aicerts.io](mailto:events@aicerts.io)