# EduBlock

**Whitepaper**

EduBlock Whitepaper

Title: EduBlock: A Blockchain-Based Framework for Decentralized Academic Credential Verification

## 1. Abstract

EduBlock is a decentralized infrastructure for issuing, verifying, and managing academic credentials using blockchain and NFT standards.

## 2. Introduction

EduBlock introduces a blockchain-based credentialing system to enable trustless verification, student ownership, and immutable certificates.

## 3. Problem Statement

- Employers face verification challenges

- Certificate fraud is widespread

- Centralized systems are vulnerable

## 4. System Architecture

4.1 Smart Contracts: Issuer registry, NFT issuance, revocation

4.2 Metadata Storage: IPFS, student hash, program data

4.3 Identity: DID + Verifiable Credentials

4.4 Interface: React, Web3.js, wallet integration

## 5. Tokenomics (Optional)

Future governance via $EDU token and staking-based reputation

## 6. Security & Compliance

Audits, GDPR alignment, revocation logic

# EduBlock

## 7. Roadmap

Q1: MVP & contracts

Q2: Pilot institutions

Q3: DID integration

Q4: Mainnet launch

## 8. Conclusion

EduBlock enables academic institutions to modernize credentials via a secure, blockchain-powered platform.

Contact: kadusousa2044@gmail.com