**ProofLearn – Hackathon Pitch**

**Introduction**

We are building **ProofLearn**, a decentralized e-learning platform powered by Cardano. Our goal is to make learning easier, faster, and verifiable — especially for students who struggle with overwhelming academic content and unreliable certification systems.

**The Problem**

Students today face real challenges:

* Too much to read in too little time
* Complex engineering subjects with limited support
* Difficulty proving skills and achievements
* Centralized education systems that are slow and expensive

**Our Solution: ProofLearn**

ProofLearn is a Web3 education platform where:

* Students can learn efficiently
* Certificates are issued as tamper-proof NFTs
* Educators are rewarded fairly for quality content
* Employers can instantly verify achievements on-chain

**Key Features**

* **On-chain certificates** issued through smart contracts
* **Simple course creation** with educator dashboards
* **Wallet-based identity** with Nami, Eternl, or Yoroi
* **Student dashboard** for tracking progress and credentials
* **Certificate verification portal** for employers and institutions

**Technology Stack**

* **Smart Contracts**: Written in Aiken and deployed on Cardano testnet
* **Frontend**: Built with Next.js, Tailwind CSS, and Mesh.js for wallet interaction
* **Backend**: Optional MongoDB for off-chain data like course content
* **Storage**: IPFS and on-chain hashes for decentralized data handling

**What We Have Built**

* A working certificate validator in Aiken
* A functional frontend with course and certificate issuance UI
* Wallet integration for issuing credentials on the testnet
* A complete GitHub repository and deployment setup

**Impact**

* Students truly own their academic credentials
* Employers can verify skills globally and instantly
* Educators benefit from token-based incentives
* Universities can reduce fraud and improve digital trust

**Next Steps**

* Add full learning experience with quizzes and progress tracking
* Launch governance and staking features for token rewards
* Partner with educational institutions to scale adoption