



Profile Overview

- **Theme** - EdTech
- **Problem Statement Title**- Skill Validation Beyond Certificates
- **Team ID** –
- **Team Name** –Subh 5



IDEA TITLE

Solution Overview

- A web-based platform that uses **blockchain** to record verified skills.
- Learners complete hands-on web development and software projects.
- Evaluations done by peers and AI.
- Outcome: a **credibility score** stored securely on the blockchain, replacing traditional certificates.



Technical Approach

•Problem-Solving:

- Project submissions are evaluated by:
- Peer developers
- AI trained on rubrics & quality benchmarks
- Blockchain used to ensure score transparency.

•Innovation:

- Moves beyond certificates and grades.
- Score continuously evolves with each project.
- Peer + AI blend ensures accurate assessment.
- Employers access real-time verified skill data.



- Medium article: "Blockchain in Education: Opportunities and Challenges"
- Mozilla DevNetwork: Peer review strategies in learning
- GitHub open source: Project-based learning repositories
- TensorFlow.js documentation for browser-based ML
- Polygon developer docs for low-cost blockchain integration



FEASIBILITY AND VIABILITY

- **Feasibility:**

- Uses existing web technologies and scalable AI models.
- Decentralized storage like IPFS available.

- **Challenges:**

- Ensuring fair peer reviews.
- Blockchain transaction fees.
- AI bias in scoring.

- **Mitigation:**

- Reviewers also get rated by learners.
- Use Polygon for low-cost blockchain writes.
- Regular retraining of AI models.



IMPACT AND BENEFITS

- **Target Audience:**

- Students, developers, recruiters

- **Key Benefits:**

- Focus on actual skill, not paper certificates.
- Transparent and trustable validation.
- Encourages continuous learning.

- **Long-Term Value:**

- Easily integrable with job boards.
- Expandable to other domains (AI, design, writing).
- Open APIs for employers and platforms.



Tech, Methodology, Process Flow

- **Technologies Used:**

- **Frontend:** HTML, CSS, JavaScript, React.js
- **Backend:** Node.js, Express.js
- **Database:** MongoDB
- **AI/ML:** TensorFlow.js for evaluation
- **Blockchain:** Ethereum/Polygon

- **Methodology:**

- User → Project Upload → Peer + AI Review → Score Computed → Blockchain Log

- **Process Flow** (Diagram Will Be Added):

- Project Submission
- Peer & AI Evaluation
- Credibility Score Generation
- Blockchain Verification