

Our TEAM

Team: Arasiyal-Anugundu

Problem Statement: Al-powered financial advisor for rural India.



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Solution: Mobile App with Voice Assistance.



Executive Summary

EmpowerAl: Empowering Rural Women with Al-Driven Financial Independence

EmpowerAI is an AI-powered platform designed to address the financial literacy and accessibility challenges faced by rural women like Lakshmi, an aspiring entrepreneur from Odisha. The platform offers personalized financial education, budgeting tools, micro-investment opportunities, and secure banking services, all accessible in regional languages through voice-enabled AI.

Key Features

Voice-First Financial Education



Tailored learning modules for users with varying literacy levels.

Personalized Budgeting & Investment



Al-driven recommendations based on individual financial goals.

Blockchain-Backed Savings Groups



Transparent and secure community savings for microloans.

Al Powered Mentorship



Connecting users with successful female entrepreneurs and financial advisors.

EmpowerAl is designed to be **inclusive**, with **offline accessibility** and **gamified learning** to ensure engagement and impact. Its unique combination of **Al**, **blockchain**, and **emotional intelligence** provides a **scalable**, **secure**, and **sustainable solution** to empower rural women to take control of their financial futures.



Problem Statement

Target Industry: Financial Inclusion and Empowerment

Industry Type: B2C

User Group: Rural women, particularly those with low to no formal education, aspiring for economic independence through micro-entrepreneurship.

User Department: Individual financial management and rural entrepreneurship.

Solution Scenario: Lakshmi, a widow from a rural village in Odisha, dreams of starting a dairy business to provide a better future for her children. However, her lack of **financial literacy and access to personalized financial products** has made her fearful of navigating the complex financial landscape. **EmpowerAl** offers her a **simple**, **voice-enabled platform** that delivers personalized **financial education**, **budgeting tools**, **and tailored investment options** in her local language. The platform provides **a safe**, **accessible environment** where **Lakshmi** can learn about managing her finances, receive mentorship, and confidently take steps toward entrepreneurship with **Al-powered micro-loan suggestions and savings advice**.

Data Capture

User inputs are collected via voice interface or simple text forms, capturing essential details such as income, savings, financial goals, and preferences.

Data Flow Processing

The platform's AI algorithms analyze
the data, providing personalized
financial guidance such as
budgeting, investment
recommendations, and micro-loan
eligibility based on the user's
financial profile.

Flow

Outputs are delivered via voicebased recommendations, gamified learning modules, and financial plans, with secure blockchain-backed transactions for any micro-loans or savings group contributions

Methodology / Approach

W Value Proposition

EmpowerAI bridges the gap in **financial literacy and accessibility** for rural women by offering **an intuitive**, **voice-enabled platform with AI-driven mentorship**, **gamified learning**, **and secure**, **transparent savings solutions**.

~Impact Metrics

- > Improvement in financial literacy scores (measured through pre- and postengagement assessments).
- Increase in savings and investments via group savings and individual accounts.
- > Adoption rate of micro-loans and government-backed financial schemes.
- > Reduction in loan default rates through personalized financial education.

Technologies Used

- Languages/Frameworks: Python, JavaScript, Next.js, Tailwind CSS, TensorFlow.
- > APIs/Platforms: Mozilla DeepSpeech (voice recognition), GPT-3 (NLP), Firebase (backend).
- Blockchain: Hyperledger Fabric for secure savings and transparent transactions.
- Tools: Unity for gamification, TensorFlow for sentiment analysis.

Assumptions, Constraints and Decision Points

- Assumptions: Rural users have access to basic smartphones and prefer voice-based interfaces over text.
- Constraints: Limited internet connectivity necessitates offline-first functionality.
- Decision Points: Chose a voice-first AI design for accessibility; opted for blockchain to ensure transparency and trustworthiness in savings mechanisms.

Ease of Implementation & Effectiveness

- Ease: Modular, scalable components allow quick deployment in diverse regions.
- Effectiveness: Tailored design addresses barriers like literacy and connectivity while fostering financial independence.

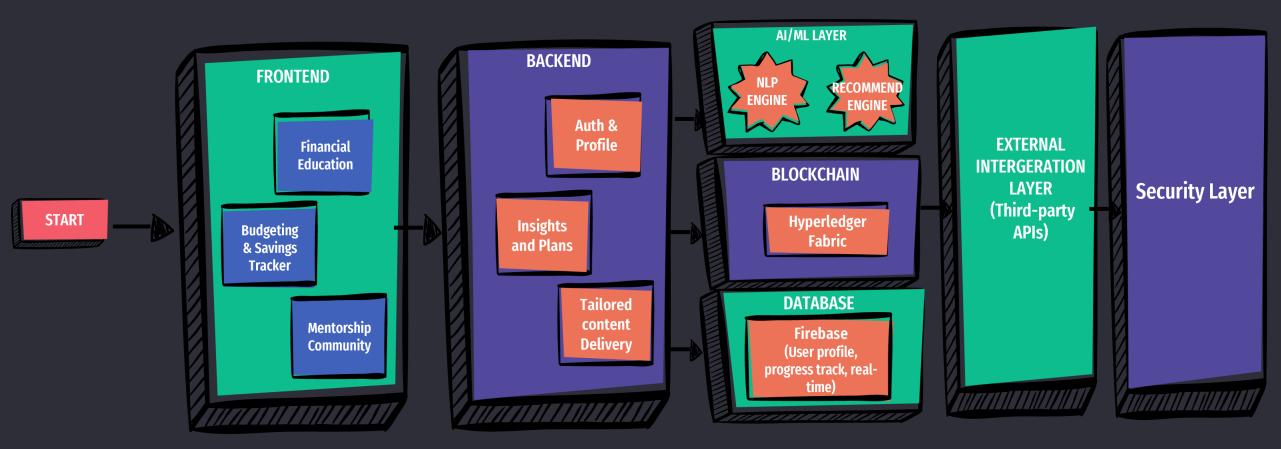
Scalability & Security

- Scalability: AI backend supports multi-language expansion; modular architecture adapts to sectors like health, agriculture, and education.
- Security: Tailored design addresses barriers like literacy and connectivity while fostering financial independence.

🗫 Demonstration Components

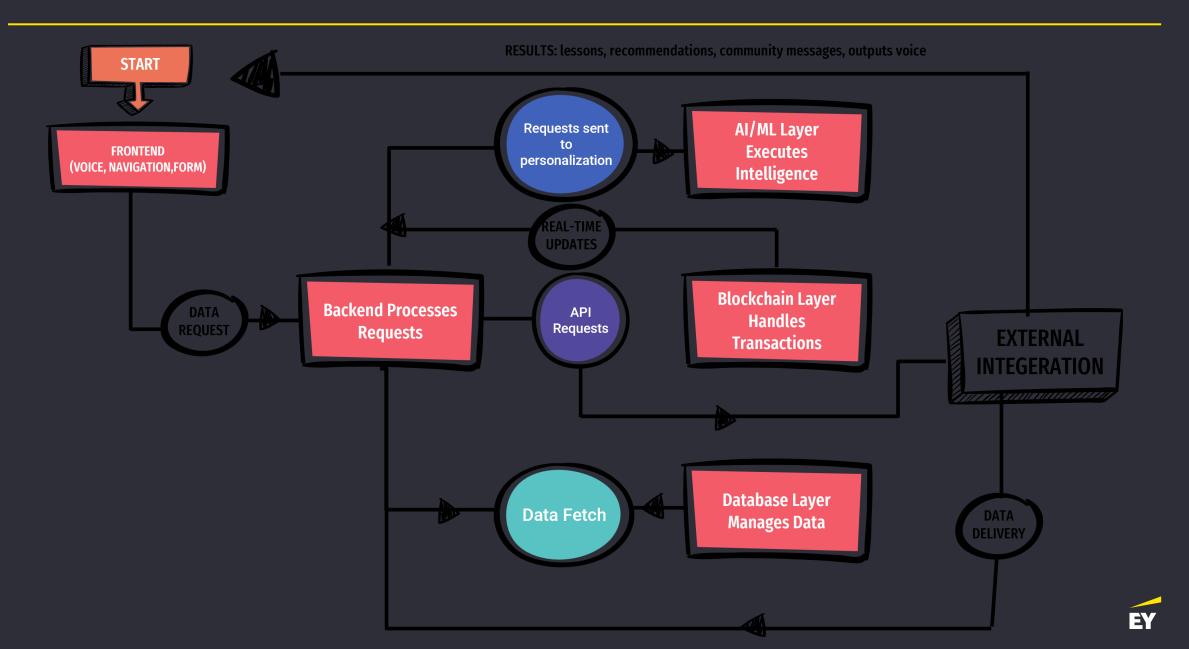
- Al-powered voice assistant for financial education in regional languages.
- Blockchain-backed digital savings and micro-loan platform prototype.
- Gamified financial literacy module.
- Personalized financial mentorship powered by Al.

Architecture Diagram





Flow Chart



Wire Frames

