Abstract

Title:
AI-Based System for Ensuring Trust and Transparency in Group Savings and Lending Activities

Background and Motivation:
In many communities, especially in informal settings, people participate in group savings and loan schemes. However, this role is often associated with challenges of trust, transparency and accountability. With the advent of digital financial tools, there is a huge opportunity to improve these processes. Digital platforms like UPI (Unified Payments Interface) can provide more efficient and transparent group business transactions, but the absence of systems specifically designed to ensure accountability can lead to friction and financial mismanagement results Well-designed policies can mitigate these issues, build confidence and ensure sustainability of investment practices.

Problem Statement:
Traditional savings and lending channels in a group setting lack transparency and accountability, leading to disputes, budget mismanagement and even loss of trust among members With the widespread use of digital channels, especially UPI group financial activities are tracked, verified and monitored to ensure transparency and complete security is the automated systems Without such a solution, urgently needed, financial management incorrect may remain a key problem in group activities.

Proposed Solution:
This project proposes to develop an AI-powered system that uses digital tools like UPI to ensure transparency, accountability and trust in group savings and lending The system will include real-time transaction tracking features, audits a it is a functional, AI-powered system to detect anomalies or suspicious transactions It will, look for anomalies and issue alerts when needed. This allows team members to track their individual contributions and loans in a user-friendly way. In addition, the system will integrate a digital ledger to create a transparent record of all transactions.

Key Objectives:

- **Real-Time Transaction Monitoring**: Develop a system to track transactions in real-time using UPI and other digital tools.
- **AI-Based Anomaly Detection**: Implement machine learning algorithms to detect suspicious patterns and prevent financial fraud.
- **Automated Auditing**: Create an automated system to audit transactions and ensure compliance with the group's rules and policies.
- **User Transparency**: Enable group members to access their transaction history and track contributions, loans, and repayments.
- **Trust and Accountability**: Build features that help ensure trust among members by providing clear and understandable financial reports.

Impact and Benefits:
Implementing this AI-based system will create greater trust and accountability among team members. Using UPI and other digital tools will make communication faster, safer and more transparent. Automated systems of monitoring, accounting, and abnormalities will reduce the risk of investment mismanagement and conflicts of interest, and contribute to healthier investment management for group funds and borrowing. Additionally, the introduction of this policy will promote the use of digital tools for financial inclusion, especially for those in rural areas or underserved areas.

Keywords:
Group Savings, Lending Activities, Transparency, Accountability, Trust, UPI, AI, Machine Learning, Digital Financial Tools, Financial Management, Fraud Detection.