

MoneyFyi

- **Problem Statement-**

Small and medium enterprises in India, especially retail shops and local counters, struggle to manage daily financial risks, prevent digital fraud in UPI and online payments, and avoid penalties from delayed or incorrect GST/TDS compliance because manual transaction checks and traditional apps lack real-time analysis and proactive guidance; therefore, there is an urgent need for an AI-driven system that autonomously analyzes uploaded statements and transactions, predicts risks, and provides actionable insights to safeguard SME financial health.

- **Agentic AI Challenge-**

- Develop an AI-agent system that autonomously analyzes uploaded transaction data for SMEs.
- Detect anomalies, mismatches, and compliance risks across multiple payment modes (UPI, cards, invoices).
- Provide proactive cash-flow forecasts, fraud alerts, and compliance reminders in real time.
- Deliver actionable insights and recommendations via a user-friendly dashboard to assist SME decision-making.

- **Theme-** Fintech

- **Prototype-** MoneyFyi

- **Team Name-** Carinae

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Proposed Solution

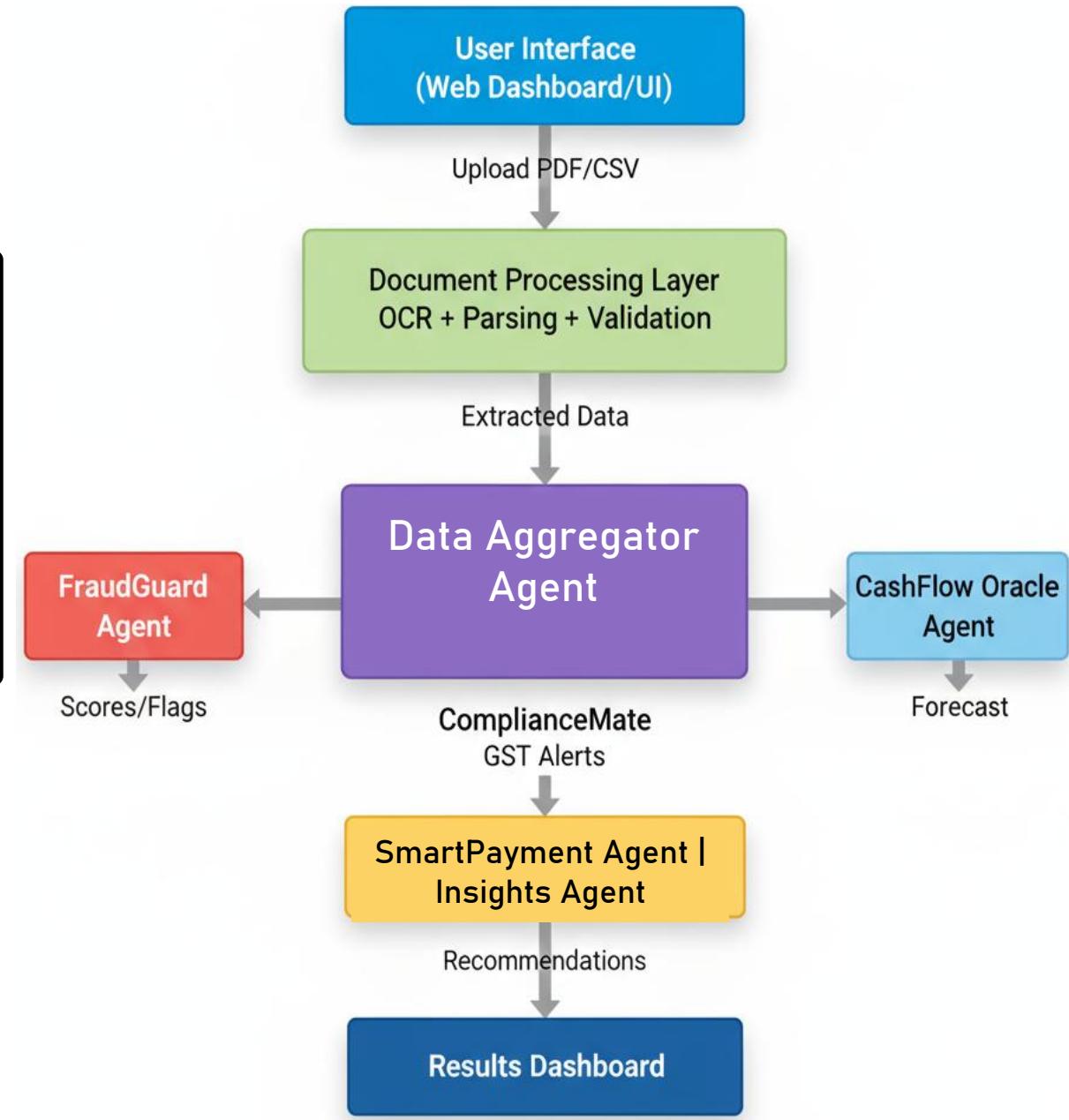
Solution Statement

An AI-powered multi-agent system autonomously analyzes uploaded financial data to verify transactions, detect anomalies, and identify compliance risks across various payment types. Leveraging machine learning, NLP, and OCR, it semantically understands invoices, statements, and alerts without requiring bank integrations.

The system provides real-time, explainable insights and proactive recommendations via a secure, mobile-friendly dashboard, empowering SMEs to prevent fraud, avoid penalties, and make informed financial decisions efficiently and reliably.

Features

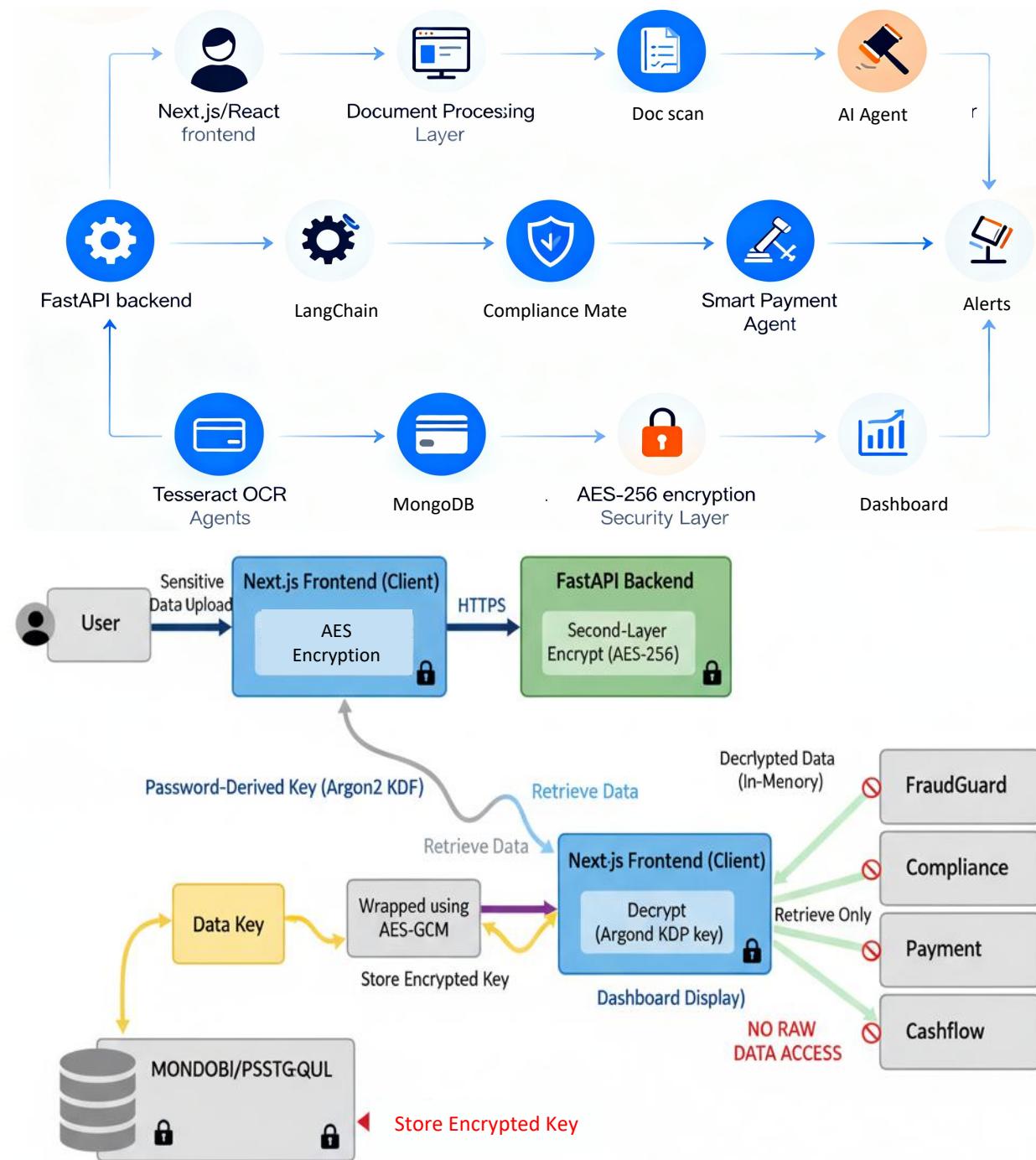
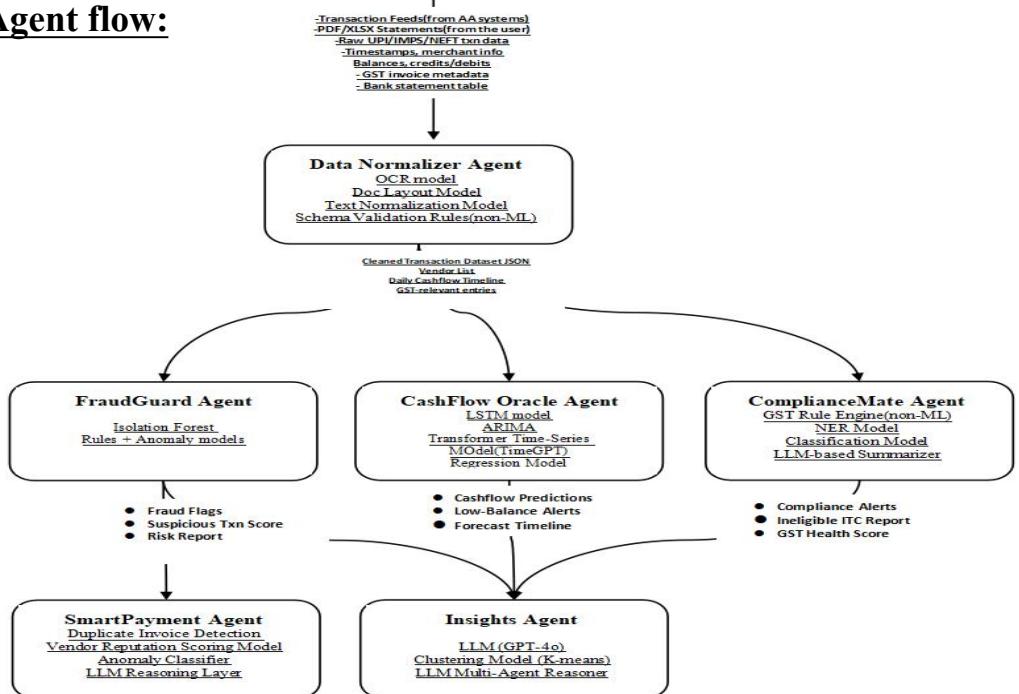
- **Real-time Fraud Guard:** Flags risky transactions, predicts fraud, stops loss.
- **Automated Compliance:** Filing reminders, document prep, mismatch alerts.
- **Cash-Flow Prediction:** Forecasts shortages, risky clients, budget advice
- **Smart Payments:** Secure vendor checks, split payments, error prevention.
- **WhatsApp Notifications:** Instant compliance/fraud alerts, payment advice



Technical Approach

- Secure collection of user financial and market data through structured inputs and APIs.
- AI-driven feature extraction and sentiment analysis to generate personalized investment insights.
- Personally identifiable information encrypted using AES-256, ensuring robust data protection and privacy compliance.
- Aggregated non-identifiable data utilized to optimize portfolios and generate recommendations while maintaining confidentiality.

Agent flow:



Feasibility & Viability

- **Technical Feasibility:** Utilizes proven frameworks like Next.js, FastAPI, LangChain, OpenAI/Llama models, Scikit-learn for anomaly detection, and OCR engines such as Tesseract for robust, scalable AI agent orchestration.
- **Data Privacy:** Integrates AES-256 encryption, role-based access control, and optional on-device processing to ensure user data security and compliance with RBI's Account Aggregator guidelines.
- **Practical Adaptation:** Designed for ease of use by SMEs, requiring only simple uploaded statements without bank logins, reducing barriers with a friendly dashboard and actionable insights.
- **Sustainability:** Modular AI agents and cloud-native architecture enable easy scaling, continuous updates, and long-term maintenance aligned with evolving financial regulations and SME needs.



1. **Data Security:** 'AES-256 & DPDP-compliant'
2. **Technical Flexibility:** 'Modular agents, cloud-native stack'
3. **Compliance Automation** 'Instant GST/TDS alerts'
4. **Operational Ease:** 'minimal training'
5. **Market Readiness:** 'Addresses urgent SME pain points'



Technical Feasibility

Next.js, FastAPI, LangChain agents, OCR, LLMs



Data Privacy

AES-256 encryption, DPDP-compliant, secure interactions



Practical Adaptation

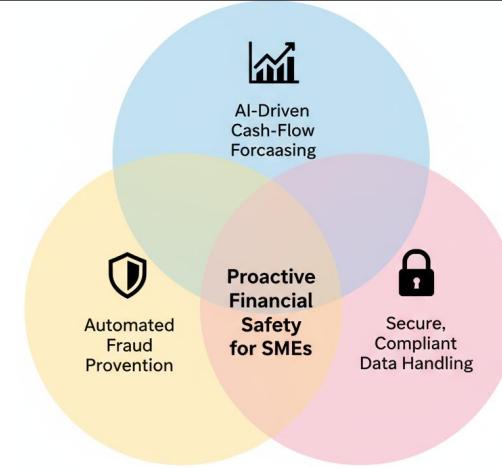
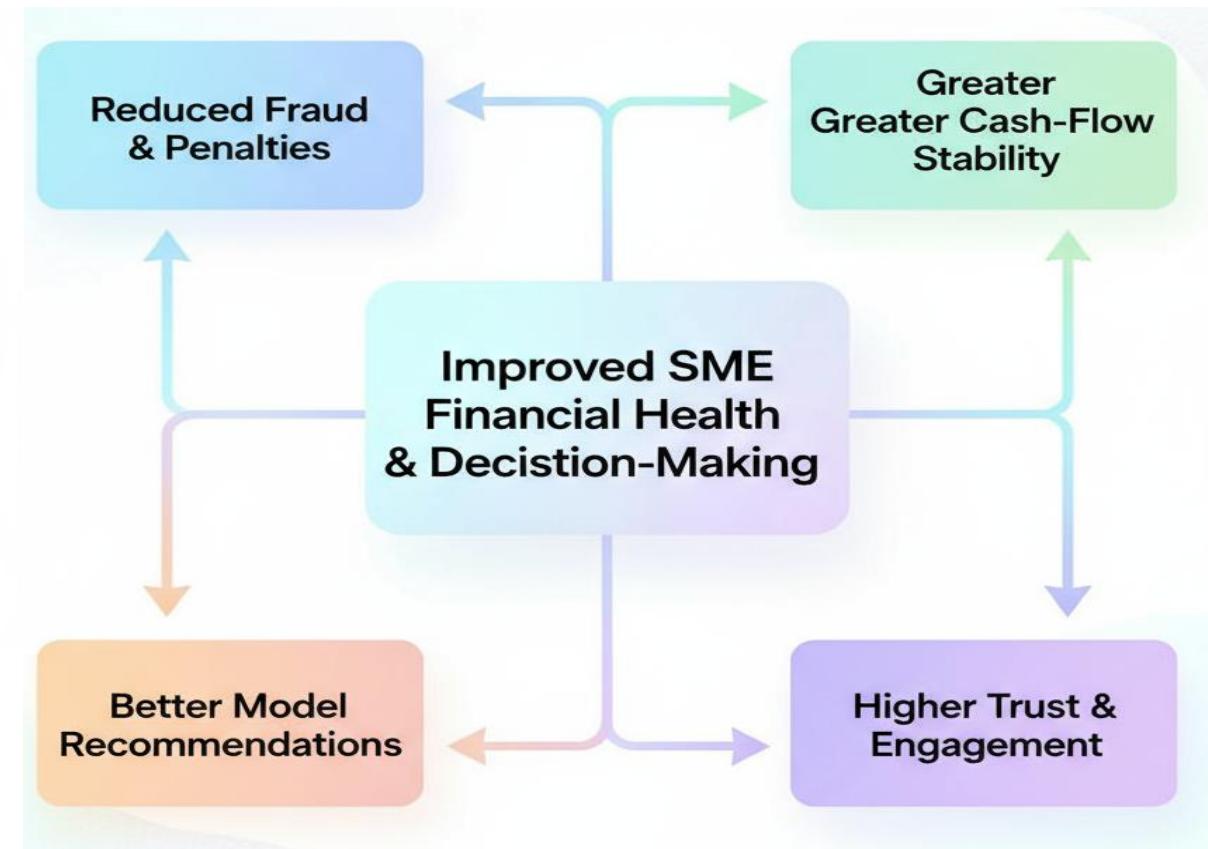
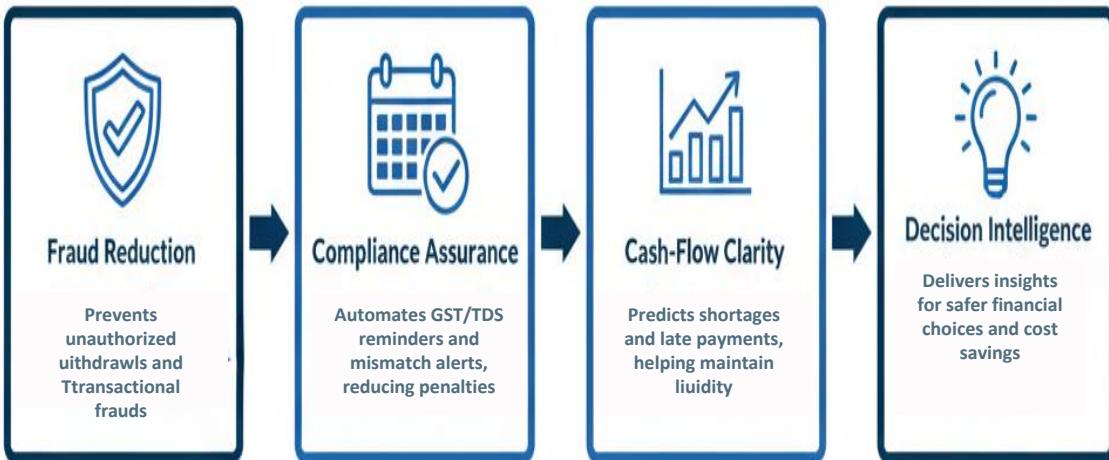
Easy uploads, no bank logins, intuitive dashboard



Sustainability

Modular AI agents, cloud-native, continuous updates

Impact & Benefits



Research and Figures

- UPI Based Financial Fraud Detection Using Deep
- FAMOS: Robust Privacy-Preserving Authentication
- Secure Use of the Agent Payments Protocol (AP2)
- India's DPDP Act



Digital Fraud Impact



Compliance Penalties



Market Scope



Adoption & Risk Trend

Sources

Information Technology Act, 2000 (with amendments)

RBI Master Direction on Regulation of Payment Aggregators, 2025

RBI Authentication Mechanisms for Digital Payment Transactions Directions, 2025

The Payment and Settlement Systems Act, 2007

The Prevention of Money Laundering Act (PMLA), 2002 (Amendments 2023)

