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(57) Abstract :
The present invention relates to an AI-enabled framework (100) for detecting risky financial transactions. The system comprises a transaction input module (101), preprocessing unit (102), anomaly detection engine (103), risk scoring system (104), explainability module (105), and alert generation interface (106). By integrating machine learning, anomaly detection, and explainable AI, the framework provides real-time detection, reduces false positives, ensures regulatory compliance, and enhances transparency. The invention offers scalability and adaptability, making it suitable for high-volume financial ecosystems requiring robust fraud prevention mechanisms.

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