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(57) Abstract :

AI-BASED FRAUD DETECTION SYSTEM FOR SECURE DIGITAL TRANSACTIONS ABSTRACT The present invention relates to an AI-based fraud detection system for securing digital transactions. It utilizes machine learning and artificial intelligence to analyze transaction patterns and detect fraudulent activities in real-time. The system integrates behavioral analytics, deep learning, and natural language processing to enhance fraud detection accuracy. It continuously learns from historical transaction data to improve risk assessment. Real-time monitoring tools provide instant alerts upon detecting suspicious activities. Blockchain technology ensures transaction transparency and prevents data tampering. The system is designed to integrate with financial institutions, e-commerce platforms, and online payment gateways. Multi-factor authentication enhances user verification, reducing unauthorized access. AI-driven risk scoring categorizes transactions based on fraud likelihood. The invention minimizes false positives while effectively preventing fraud. Automated fraud reporting ensures compliance with security regulations. The AI-based fraud detection system strengthens digital transaction security and reduces financial fraud risks

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