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(57) Abstract :

The invention discloses an automated detection model for online financial fraud patterns, comprising a data ingestion unit (101), feature extraction module (102), machine learning detection engine (103), anomaly detection system (104), blockchain audit unit (105), alert generation system (106), and reporting dashboard (107). The model integrates hybrid learning, behavioral analytics, and blockchain-based auditability to detect fraud in real time. It reduces false positives, adapts to evolving threats, and ensures transparent compliance, thereby providing a scalable and secure solution for financial institutions and online platforms.

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