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(51) International classification	:G06Q0020400000, H04L0009400000, G06N0020000000, G06Q0040000000, G06Q0030018000	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The invention discloses an AI-based platform for predictive financial fraud detection that integrates a data ingestion module (101), preprocessing engine (102), AI/ML models (103), behavioral analytics engine (104), explainable AI module (105), and fraud alert system (106). The platform ensures real-time monitoring, adaptive learning, and explainable outputs. It achieves high fraud detection accuracy, reduced false positives, and scalability across millions of transactions per second. The invention provides a proactive, adaptive, and transparent solution to financial fraud, ensuring security, compliance, and trust in digital financial systems.

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