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(51) International classification	:H02B 1/01, G06N 20/20, G06N 3/0985, G06N 3/09, G06N 3/091	(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 (72) <b>Name of Inventor :</b> <b>1)OSHIN MISRA</b> <b>2)SANCHI KAUSHIK</b>
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(57) Abstract :

The invention discloses an AI-powered framework for detecting insider cybersecurity threats, comprising a user behavioral profiling module (100), anomaly detection engine (200), contextual correlation module (300), predictive risk scoring system (400), and automated alerting system (500). The framework dynamically learns user behavior, identifies anomalies, correlates contextual data, and prioritizes threats using AI-driven risk scoring. It integrates with existing security platforms to provide real-time detection, proactive mitigation, and scalable deployment. The invention ensures efficient, accurate, and adaptive protection against malicious insider activities.

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