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(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)VATIKA JALALI
(33) Name of priority country	:NA	2)MAYANK DEEP KHARE
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(57) Abstract :

The present invention discloses an AI-based model for detecting cybersecurity threats in banking, comprising a data ingestion module (101), preprocessing unit (102), machine learning detection engine (103), anomaly detection system (104), compliance validation unit (105), alerting and response manager (106), and secure banking database (107). The system analyzes structured and unstructured data using AI and machine learning techniques to detect anomalies, fraudulent transactions, and unauthorized access. It provides real-time alerts, automated responses, and compliance validation, ensuring adaptive and scalable protection for modern banking infrastructures.

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