

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100552 A

(19) INDIA

(22) Date of filing of Application :17/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : AN AI-POWERED FRAMEWORK FOR ENHANCED CYBERSECURITY INCIDENT RESPONSE

(51) International classification	:H04L0009400000, G06N0020000000, G06N0005045000, G06N0003045000, G06N0020200000	(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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(32) Priority Date	:NA	<b>1)MONA DEVI</b>
(33) Name of priority country	:NA	<b>2)NIDHI SHARMA</b>
(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an AI-powered framework (100) for enhanced cybersecurity incident response, comprising a data ingestion unit (101), anomaly detection engine (102), AI-based decision module (103), orchestration unit (104), analyst interface (105), and incident reporting module (106). The framework integrates machine learning, predictive analytics, and automated orchestration to improve detection accuracy, reduce false positives, and minimize mean time to response. It provides explainable decision-making, compliance-ready reporting, and scalable integration across enterprise and cloud environments, thereby ensuring efficient, adaptive, and intelligent incident response.

No. of Pages : 15 No. of Claims : 6