(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/11/2025

(21) Application No.202511106492 A

(43) Publication Date : 26/12/2025

(54) Title of the invention : A COMPUTER-ENABLED MODEL FOR ENHANCED NETWORK SECURITY PROTOCOLS

(51) International classification	:H04N 21/466, H04W 12/37, A63F 13/70, H04N 7/167, G06F 16/93	(71)**Name of Applicant :** **1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY** Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India (72)**Name of Inventor :** **1)PREETI GUPTA** **2)ARCHANA VERMA**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	: :01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The invention relates to a computer-enabled model for enhanced network security protocols, comprising an intrusion detection module (101), encryption engine (102), authentication system (103), machine learning analyzer (104), and cloud-based security manager (105). The system provides adaptive, intelligent, and multi-layered defense against cyber threats using AI-based analytics, dynamic encryption, and real-time monitoring to ensure secure data communication across diverse network environments.

No. of Pages : 14 No. of Claims : 6