

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100038 A

(19) INDIA

(22) Date of filing of Application :16/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : A COMPUTER-BASED FRAMEWORK FOR ENHANCED DATA PRIVACY MANAGEMENT

| | | |
|---|---|---|
| (51) International classification | :G06F0021620000, H04L0009400000, G06F0021600000, H04L0009000000, H04W0012020000 | (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 |
| (31) Priority Document No | :NA | (72) Name of Inventor : |
| (32) Priority Date | :NA | 1)GARIMA JAIN |
| (33) Name of priority country | :NA | 2)BANDANA KUMARI |
| (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 provides a computer-based framework for enhanced data privacy management. The system integrates a Data Classification Module (101), an Encryption Engine (102), a Privacy-Preserving Computation Unit (103), a Compliance Monitoring Module (104), and an Adaptive Policy Engine (105). Together, these components enable automated classification, dynamic encryption, privacy-preserving analytics, continuous compliance monitoring, and adaptive policy enforcement. The invention ensures confidentiality, integrity, and accountability of sensitive data across distributed environments, addressing modern privacy challenges while maintaining high data utility for advanced applications.

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