

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311062261 A

(19) INDIA

(22) Date of filing of Application :15/09/2023

(43) Publication Date : 13/10/2023

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATICALLY IDENTIFYING ATTRIBUTES FOR ANONYMIZATION

(51) International classification :G06F0021620000, H04W0012020000, G06K0009620000, G06F0021600000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(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

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)PANDA, Surya Narayan
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The system in the present disclosure employs a multi-module approach to seamlessly handle the identification and anonymization (120) of sensitive attributes within datasets. The core modules include Data Profiling, Sensitive Attribute Identification, Attribute Classification, Anonymization (120) Strategy Selection, Data Transformation, Data Quality Assessment, Privacy Risk Assessment, Automated Validation and Testing, Logging and Auditing, Reporting and Monitoring, and Regulatory Compliance. The system dynamically selects appropriate anonymization (120) strategies such as generalization, suppression, perturbation, or substitution based on the nature of the attributes. Data transformation applies chosen strategies to sensitive attributes, ensuring protection while preserving data utility and data quality assessment evaluates the transformed data's analytical value. The proposed system offers a holistic solution for organizations seeking to balance data utility with individual privacy. By automating the identification of attributes for anonymization (120), the system minimizes manual intervention, enhances efficiency, and bolsters data security in compliance with evolving privacy norms.

No. of Pages : 29 No. of Claims : 10