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(57) Abstract :

OPTIMIZED PRIVACY-PRESERVING DATA ANONYMIZATION FRAMEWORK FOR ENHANCED SECURITY IN LARGE-SCALE DATA ANALYTICS
ABSTRACT The invention presents an optimized privacy-preserving data anonymization framework 100 designed for enhanced security in large-scale data analytics. The framework includes a data collection module 110 that aggregates data from diverse sources, an anonymization engine 112 that applies privacy-preserving transformations to balance data utility with individual privacy, and a security enhancement module 114 that monitors and adjusts the anonymization process in real-time to comply with security protocols and regulations. Additionally, a data analysis interface 116 allows for the secure use of anonymized data in analytics, ensuring privacy is upheld. A feedback loop mechanism 118 is integrated to gather user feedback and performance metrics, facilitating continuous refinement of both anonymization and security processes. This framework addresses the critical need for robust data protection in analytics while maintaining the usefulness of the data.
FIG. 1

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