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(57) Abstract :

A scalable anomaly detection framework (100) for multi-source data streams is disclosed, comprising a dynamic feature extraction module (101), a modular data normalization engine (102), a source-adaptive anomaly detector (103), a feature evolution tracker (104), and an anomaly prioritization and notification unit (105), configured for real-time operation, adaptive learning, and prioritized anomaly management with minimal latency across heterogeneous data environments.

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