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(57) Abstract :

A smart log analysis system for distributed applications is disclosed. The system includes a log ingestion interface (101) configured to receive heterogeneous log streams, a normalization engine (102) configured to generate canonical event records, a context enrichment layer (103) configured to append topology and execution metadata, a correlation engine (104) configured to form incident chains, an anomaly inference module (105) configured to identify significant deviations, a root cause ranking unit (106) configured to prioritize likely initiating events, and an output interface (107) configured to present ranked diagnostic results for accelerated fault isolation.

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