Logging Frameworks

Structured logging captures detailed information about model predictions and system behavior

Structured Logs

JSON format with timestamps, request IDs, user IDs, predictions

Log Levels

DEBUG, INFO, WARNING, ERROR, CRITICAL

Centralized Collection

Aggregate logs from distributed services

Search & Analysis

Query logs for debugging and auditing

🛠️ **Tools & Platforms**

ELK Stack (Elasticsearch, Logstash, Kibana)   Splunk   Datadog   CloudWatch Logs