

Anomaly Detection & Analytics For Machine Data & Log Files

Text logs and sensor data are constantly being generated and stored by many machines, systems and devices. They are rich in information but getting to this value is not trivial.

Yazzoom has built a specialized solution for extracting valuable insights and actions from machine data and log files by means of advanced analytics and machine learning.

Unique Capabilities



Ability to learn from the various heterogeneous data streams statistical models that describe how the machines, devices and systems have been used and which process steps were executed by those systems. This is called **Process Mining**.



Ability to detect in real-time anomalies or abnormal process execution in both numerical data and log files, while taking into account the context in which the system operates. This is **Context Dependent Anomaly Detection**.

General Architecture



Key Benefits



Operational intelligence is the key to **R&D excellence**.

- Higher reliability through more realistic product testing & more precise engineering requirements
- Better product design based on the observed typical usage of the product



For **Service and Maintenance Excellence**, efficiency is everything.

- Gain pre-emptive knowledge of potential problems
- Lower MTTR with more efficient investigation and troubleshooting



Operational Excellence means preventing problems.

- Real-time anomaly detection can trigger automatic remediation actions to prevent the problem.
- Machine learning enhanced data exploration complements human expertise for faster root-cause analysis.



Custom Analytics Modules developed by our multi-disciplinary team of experts for your needs and according to your specifications, for example:

- Typical product interaction pattern extraction for up and cross-selling
- Machine performance insights
- Root-cause analysis system to find the likely origin of a problem

Flexible Deployment & Integration



The solution can be integrated on your company's private servers or in the cloud. We cooperate with your technical team to seamlessly integrate it in your infrastructure.

The output generated can be visualized in dashboards, trigger notifications or remediation actions to minimize or avoid further issues, or be stored for further analysis e.g. for interactive exploration in search of bugs or root causes of machine failures in dedicated front-ends.

Typical Application domains

- Telecom & Network Equipment
- Machine or Device Fleet
- Industrial Production Equipment
- Printers & Copiers
- Industrial Internet of Things
- Medical Machines
- Rolling Stock
- ...

Some of our customers & partners in machine data and log analytics research and development

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