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AI for Real-Time Condition Monitoring

AI for turning IoT data into insights and actions

INFXL offers a pair of complementary AI solutions for tackling the IoT data overload: Cloud-based IoT servers are receiving too much data, too frequently, from too many edge devices

EDGXL for ultra-low-power edge inference

CLDXL for high-throughput cloud inference

EDGXL cuts down on the frequency and amount of data uploaded by edge devices. It does that on inexpensive hardware while operating on µWs of battery power

CLDXL translates the insights received from a multitude of edge devices into decisions rapidly while employing a minimum of resources

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Ensure optimal machine performance and high availability by identifying developing faults before they become major failures

Condition monitoring gives early warning of impending machine failure, even before the symptoms become obvious.

Condition monitoring has the potential of preventing catastrophic failures and unexpected stoppages.

Condition monitoring makes critical decisions based on sensor data coming out of electronic, electrical, mechanical and electro-mechanical systems. Our advanced AI looks for suspect patterns in that data and notifies the operator in case one is found.

CASE STUDY: Predict failure of a part in the air pressure system of heavy trucks

Predict the imminent failure of a safety-critical part in the air pressure system of heavy trucks.

Sensor data, consisting of 170 attributes (comprising single-element values and histograms), were used to train an EDGXL module for predicting imminent failures. The dataset used consisted of 76,000 instances.

EDGXL predicts failure in the air pressure system with 68% recall and 79% precision.

EDGXL machine health monitor for the air pressure system can run on an inexpensive MCU like the ARM Cortex-M0, requires only 133 kB of memory and can operate on as low as 93 µW of battery power.

Contact us to find out how INFXL's AI solutions can help in preventing catastrophic failures and unexpected stoppages