

InsightEdge AI

Product Brief

V 1.0

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Product Discovery

Product Name

InsightEdge AI (working title)

What is the product?

InsightEdge AI is an industrial operations intelligence platform that combines Artificial Intelligence (AI) with the Internet of Things (IoT) to provide manufacturers with actionable insights to improve their operations.

The platform connects to industrial IoT devices including industrial sensors, PLCs, SCADA systems and other operational systems. It normalizes operational data into a common data model to extend monitoring across different operations and devices, facilitating better operational decisions across devices and locations. A natural-language AI assistant allows operations teams to explore operational data using natural language.

InsightEdge AI continuously analyzes operational data collected and uses predictive analytics to detect anomalies and predict equipment failure. Generative AI provides recommendations that help operations teams make informed decisions, earlier.

Companies can configure what qualifies as an operationally significant event that triggers a notification. They can personalize notification handling based on policies, escalation paths, and user roles. This ensures the right information reaches the right person at the right time. And because the solution uses event-driven architecture, notifications are generated immediately when events occur, allowing quick reaction to time-sensitive events.

Each notification provides everything the recipient needs to understand the event, including a description of what happened, as well as a recommendation, including the platform's confidence level, for next best action to help recipients to react quickly.

To share insights across the organization, InsightEdge AI provides configurable operational and executive dashboards that can be customized to support specific operational responsibilities. Permissions ensure that every user only sees the data they are authorized to see.

Who is it for?

Medium and large manufacturers operating one or more production facilities in the following industries:

- Automotive
- Industrial Manufacturing
- Food & Beverage
- Pharmaceuticals
- Chemicals
- Consumer Goods.

What problem does it solve?

Manufacturers generate large volumes of operational data but often struggle to convert that data into timely operational decisions. Existing monitoring systems provide visibility into operations but require significant manual analysis to determine root causes and appropriate corrective actions. InsightEdge AI uses AI to consolidate and analyze IoT data to turn them into actionable insights.

Why now?

Manufacturers have long sought to improve operational efficiency, reduce downtime, and optimize maintenance. Until recently, however, the technologies required to analyze vast amounts of operational data in real time were either unavailable or economically impractical.

Advances in Industrial IoT, enterprise AI, cloud and edge computing, industrial connectivity, and computing power have now made large-scale operational intelligence both technically feasible and commercially viable.

The market conditions and the technology have matured simultaneously, so that now, AIoT is technically and commercially viable.

Why is AI necessary?

The amount of data created is almost impossible to process for a human or would be prohibitively costly and time consuming. AI can analyse data much faster and even determine patterns not easily recognizable by humans. This speeds up detecting anomalies and predicting equipment failures, leading to increased operation uptime and better Overall Equipment Efficiency (OEE).

Why not just IoT?

For two main reasons:

1. IoT on its own creates large amounts of data but does not make those data actionable. Large amounts of data need analysis to become actionable. AI makes

sense of all the data, finds the patterns that and ensures the information is sent where it is most useful.

2. InsightEdge AI goes beyond IoT in combining diverse IoT data as well as data from other Enterprise systems, such as ERP into one system creating the basis for a deeper, more complete operational picture. It can correlate operational input across a variety of Enterprise systems.

What differentiates it?

1. It does not just collect and analyze IoT data. It brings together operational data from industrial and enterprise systems to provide the context needed for better operational decisions.
2. The ability for users to provide expert feedback enables companies to operationalize, preserve, and elevate institutional knowledge.