



Intellegion

Platform for Manufacturing Enterprises of the future

Manufacturing industry in India has been undergoing a radical change due to the uptake of digital technologies. With the potent combination of AI + Cloud, the manufacturing enterprises are witnessing remarkable shifts in how traditional problem statements are now solved more optimally and efficiently resulting in operational benefits and driving business agility.

Intellegion is a platform by TheDataTeam which can function as the “central nervous system” for manufacturing enterprises of the future. Intellegion provides a broad and deep range of capabilities for collecting, managing and deriving intelligence from data of all kinds across the manufacturing enterprise, and from the field.

Built using Microsoft Azure components, Intellegion empowers manufacturing enterprises in achieving unparalleled business agility. Intellegion uses Azure components such as AI including Deep Learning and Computer Vision algorithms.

Benefits

- Cloud-based solution – quick and easy implementation
- Efficient handling of huge amount of data collected using sensors, and other IoT devices
- Automation and operationalization of data collected by disparate and geo-distributed devices
- Domain-aware metrics for diagnostics of system performance

Improve Operational efficiency by process automation

- Condition-based monitoring and automated energy efficiency decisions
- Enable a range of conveniences for customers of the future, who will anticipate networked devices and appliances

Decrease turnaround time dramatically

- Provision for automating shop floor operational optimizations –adjusting production and process
- Low latency performance to enable high capacity, high yield, low TAKT time shop floor operations

Eliminate human errors in manufacturing processes

- Functions as an application that could read, interpret, translate and convey instructions from customer to various appliances.
- Capabilities spanning computer vision, anomaly detection, time series novelty detection, etc.

Provides broad range of capabilities for collecting, managing, and deriving intelligence from data provided by geo-distributed IoT devices

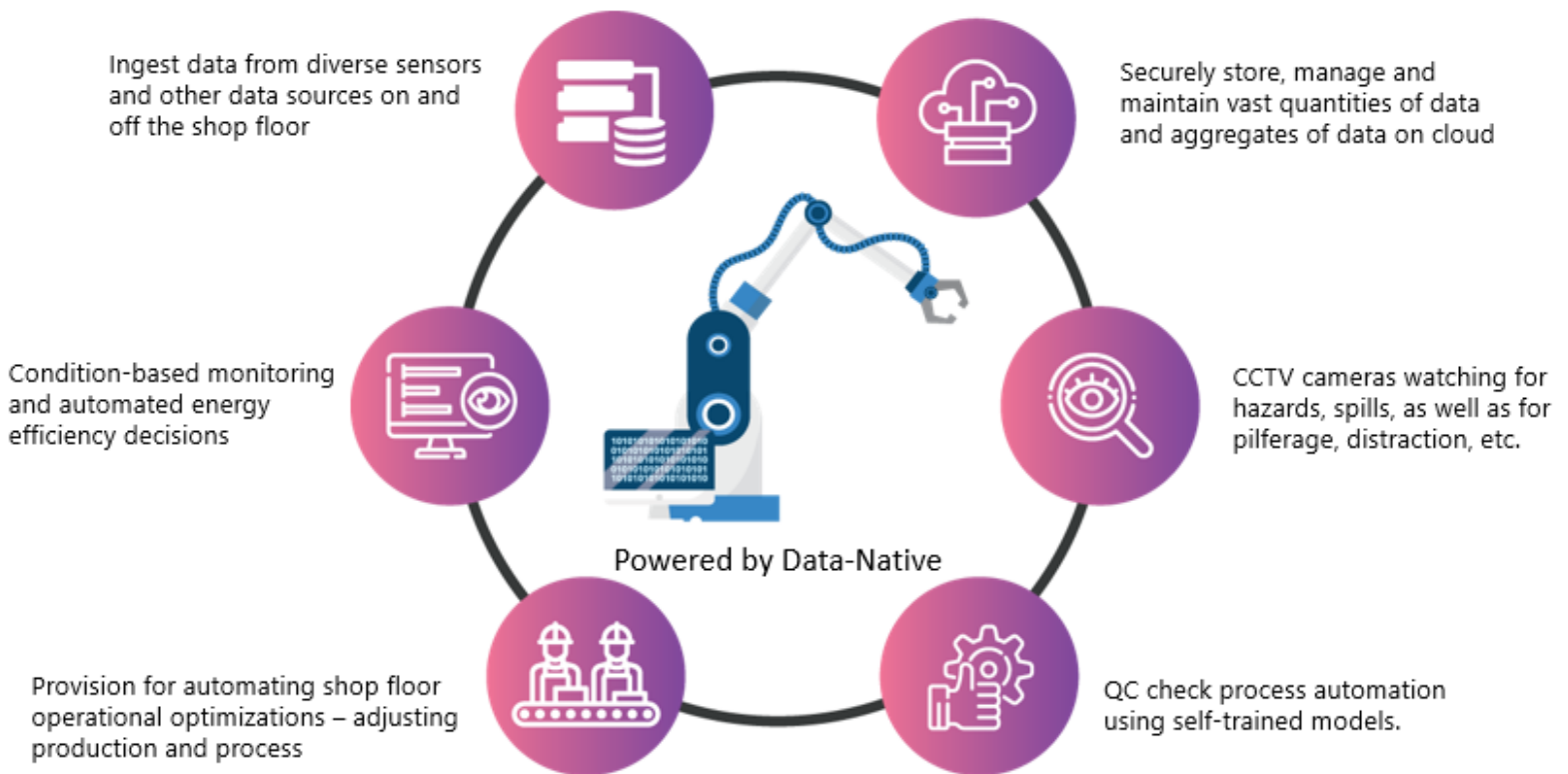


- Provide the APIs, capabilities and algorithms required for building newer and smarter distributed systems
- Enable a range of conveniences for customers of the future, who will anticipate networked devices and appliances



- AI and ML for the identification of defective parts, defective or sub-optimal operation in processes, etc
- Bundled model serving architecture enables continuous delivery of ML and DL models
- A range of descriptive, diagnostic, predictive and prescriptive capabilities

- "Design for Data" principle integrates sensor and customer data collection, storage, management, analytics and actions
- Intellegion ensures higher developer productivity and faster development cycles
- Can add entirely new value to customers – experiences, opportunities and value



Why Microsoft

Intellegion is a cloud based platform designed for manufacturing enterprises of the future. MS Azure provides various capabilities such as computer vision, anomaly detection, CNTK and so on which make the platform more efficient and smarter.