Festo AX The Automation Industry needs AI



Model



Plan the previously why AI? unplaned. to predict failure of your equipment.



FESTO



Quality to the spot.

FESTO

Why AI?

e.g. for up to 100 % Quality observation on thousands of welding spots per



Sustain what is valueable.

FESTO

Why AI?

to monitor and optimize energy consumption and detect leakages early.



FESTO

Benefits

via Digitalization including AI

✓ improve maintenance processes
 ✓ increase product quality
 ✓ lower energy consumption

by leveraging technologies like AI, IoT and Edge Computing and making them fit to the industrial automation context with "Smart Products"

We are the engineers of Productivity.



FESTO





What is Machine Learning?

Example: Anomaly Detection and Classification



FESTO

Festo AX Energy Efficiency

Flow & consumption

- Analyze air consumption of complete plant, floors, machine groups/ machines
- Get transparency regarding consumption, cost, CO2 emissions
- Identify deviations over time (e.g. by leaks)
- Initiate immediate
 countermeasures

Reporting/ alerts

- Flow, consumption, pressure, dewpoint, CO2, cost
- Actual data
- Historical data
- KPI monitoring
- Comparison with previous year
- Thresholds
- Alerting
 Standard reports

Pressure

- Analyze pressure level in various parts of your plant
- Avoid inefficient high pressure levels
- Identify and eliminate pressure drops before they cause machine downtimes
- Initiate immediate countermeasures

Pressure dewpoint*

- Analyze humidity of your compressed air
- Secure recommended air quality for production of your goods
- Secure recommended air quality for your pneumatics
- Identify deviations
- Initiate immediate countermeasures



* optional, additional sensor required



Gartner Group Analytics Model