

AI Factory Toolkit

Automating manufacturing processes with real-time intelligence and control



It's more than a MES!

The AI Factory Toolkit solution captures real-time data from the production floor, providing visibility into key manufacturing processes, such as work order management, scheduling, inventory tracking, quality control, and performance monitoring.

It is based on TupIOS, Tupl's MLOPs framework to develop hyperautomation applications oriented to Subject Matter Experts, not developers.

As the manufacturing industry evolves toward Industry 4.0., there is a growing need for an advanced MES (Management Execution System) solution that supports real-time data analysis and decision-making.

AI Factory Toolkit is more than a MES since it drastically automates data analytics and actions, fastens time to value, reduces costs and risks, scales production, and makes the supply chain predictable for better management.

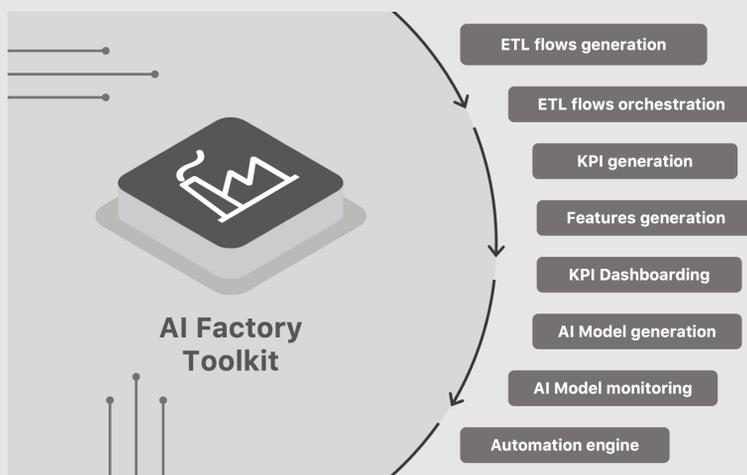
Key Features

Centralized automated analytics and actions

- Centralized solution, works with any data source.
- Real-time prediction of abnormal behaviors.
- High-value dashboarding to monitor KPIs and relevant features.
- Automated actions based on AI prediction algorithms.

TupIOS - the all-in-one MLOps suite for hyperautomation

- **Data Engineering:** UI-based data management and transformation Tupl Streams; low-code KPI formulas.
- **Feature Engineering:** UI-based feature formula generation, with types: Range, Time, and SQL features.
- **ML Toolkit:** creation of ML algorithms selected by clicking on available options; including training and usage of the models.
- **Dashboarding:** more than 100 widgets configuration and highly customizable views to analyze data trends.
- **Automation Engine:** UI-based automation template for open and closed loop real time actions enabling hyperautomation powered by AI models.



Business Impact

Accelerate time to value with AI-powered operations

Streamline operational processes to shortcut value generation, from months down to several days or weeks.

Increase Operational Efficiency

Automate complex processes to lower costs and increase output.

Better decision making

Access to real-time data and insights for more informed decision-making.

Identify potential failures

Predictive maintenance helps you avoid unplanned downtime.

