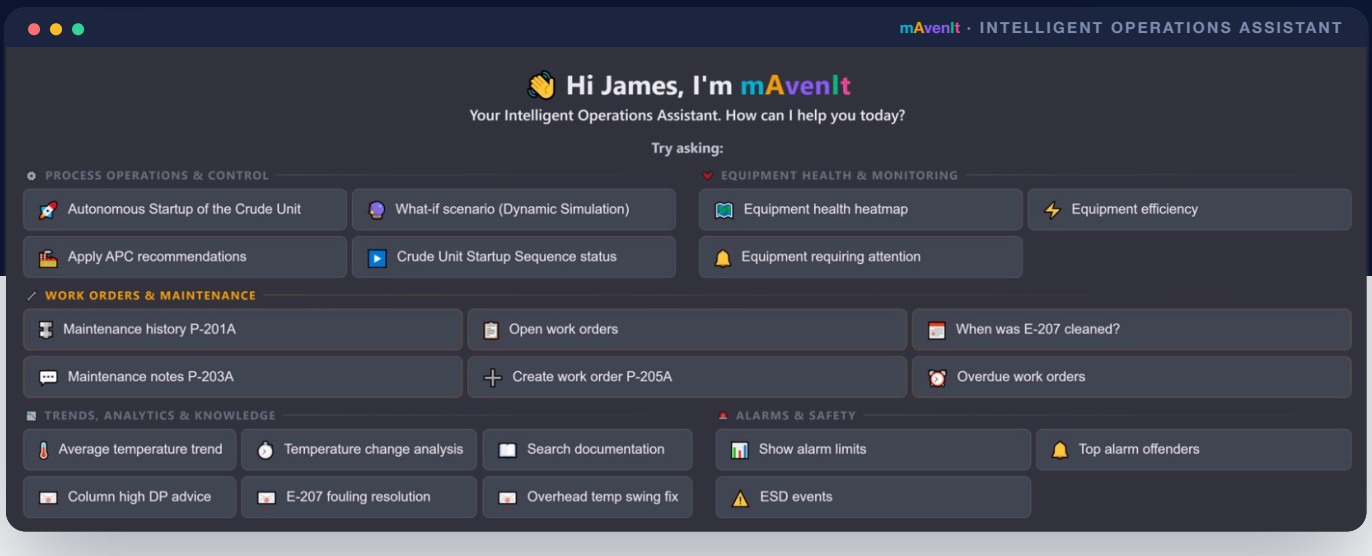
mAvenIt · CONVERSATIONAL AI FOR INDUSTRIAL OPERATIONS

# mAvenIt™

## Intelligent AI Assistant

**mAvenIt** is MavenProTech's **intelligent AI assistant** for industrial operations. It understands process context, parses natural-language commands and executes operational queries and actions — from procedure starts and setpoint moves to live status checks and what-if scenarios. Built on a state-of-the-art large language model, **mAvenIt** integrates with the rest of the MAVEN platform to bring **conversational intelligence to every operator and engineer**.




mAvenIt — CONVERSATIONAL AI ACROSS OPERATIONS, MAINTENANCE, ALARMS AND KNOWLEDGE

| | | | |
|---|---|---|---|
| **Plain English** | **Any LLM** | **100 %** | **2–6 wks** |
| commands, queries and what-ifs — no tag names | customer-hosted, sovereign or commercial | of queries and actions audit-trailed | commissioning once the platform is live |

## AT A GLANCE

- Natural-language commands, queries and what-if scenarios
- Intent recognition with confidence scoring and clarification
- Real-time access to process state, history and procedures
- Read-only by default, role-based authorisation for actions
- Vendor-neutral LLM — runs on the model of your choice
- On-prem, private cloud or hybrid deployment

## PART OF THE MAVEN PLATFORM

| APM | DTWIN | mAvenIt |
|---|---|---|
| Asset Performance Mgmt | First-Principles Based Digital Twin | Intelligent AI Assistant |

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## KEY CAPABILITIES

| | | |
|---|---|---|
| 01 | **Natural-language operations** | Issue commands in plain English — start procedures, adjust setpoints, query status — without memorising tag names or navigating menus. |
| 02 | **AI intent recognition** | State-of-the-art LLMs parse operator intent with confidence scoring; ambiguous requests trigger clarification rather than risky guesses. |
| 03 | **What-if & scenario analysis** | Explore operational scenarios before committing — predict outcomes of setpoint changes, evaluate risks and surface optimal operating conditions. |
| 04 | **Process knowledge base** | Built-in understanding of plant equipment, procedures and safety constraints — informed responses with engineering units and normal ranges. |
| 05 | **Real-time status queries** | Ask about any process variable, equipment state or alarm condition; mAvenIt returns contextual answers with live values and trend snapshots. |
| 06 | **Conversational memory & audit** | Context persists across exchanges; every query, action and override is timestamped and audit-trailed for compliance and review. |

## INPUTS & OUTPUTS

### INPUTS

- Natural-language text and voice from operators
- Live process tags and alarms via OPC UA / OPC DA
- Procedure libraries (ISA-88, custom SOPs)
- Asset master data and tag dictionaries
- Historical trends and event records
- Identity provider (Microsoft Entra, Okta, Ping, etc.)

### OUTPUTS

- Structured commands to the MAVEN platform
- Contextual answers with values, units and trends
- Procedure executions with step-by-step status
- What-if scenario predictions with confidence
- Voice and text responses (multilingual)
- Audit-grade activity log of every interaction

## DEPLOYMENT

mAvenIt is delivered as a containerised service that runs alongside the rest of the MAVEN platform — on-premises, in a customer's private cloud, or hybrid. The underlying LLM is configurable: customer-hosted open models, sovereign cloud or vendor APIs. Typical commissioning is two to six weeks once the platform is live.

- Vendor-neutral LLM — customer-hosted, sovereign or commercial
- Single-tenant, customer-owned data — no shared model fine-tuning
- Read-only by default; supervisory action needs role-based authorisation
- Hardened options for regulated and air-gapped sites

## WHY MAVENPROTECH

### Process-grade engineering

Built by industrial process-control engineers — grounded in the same APM and digital-twin core used across oil & gas, chemicals and metals. Not a generic chatbot.

### Vendor-neutral

Works with any DCS, PLC, historian and identity provider — and any LLM. No mandatory swap-out, no model lock-in.

### Safe and auditable

Read-only by default with role-based authorisation. Every query, action and override is logged; data stays inside your boundary.

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