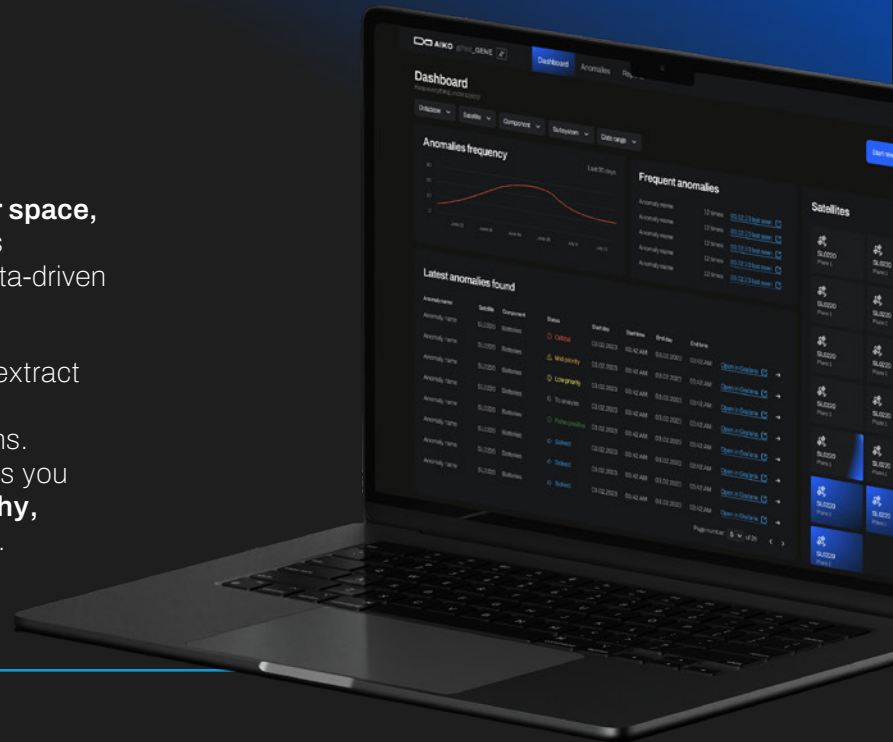


From Reactive to Proactive with AI: introducing gifted_GENE

Developed by AIKO, European leader in AI for space, gifted_GENE is a flexible platform that transforms telemetry analysis: from reactive monitoring to data-driven proactive decision-making.

Unlike traditional systems, it enables teams to extract deeper value from data by uncovering patterns, correlations, and root causes across subsystems. From satellites to launchers, gifted_GENE helps you understand **not just what's happening, but why**, empowering faster, smarter mission operations.



CORE FEATURES

HIGH-SPEED DATA PROCESSING

Processes complex telemetry sets in under 3 minutes, even across multiple subsystems.

CUSTOM RULES-BASED MONITORING

Powerful and flexible rule base engines, to define thresholds, and monitor known failure modes with precision and speed.

AI-POWERED PREDICTIONS TO REVEAL HIDDEN RISKS

gifted_GENE predictive models identify anomalies invisible to conventional methods, detecting potential failures up to 4 days before they occur and giving you critical time to intervene.

COLLABORATIVE DASHBOARDS

All your insights, clearly visualized. Built for decision-making, not just monitoring.

SECURE, COMPLIANT DEPLOYMENT

Designed for secure data handling - on-premise or cloud - with full compliance to data governance and operational standards.



INSIGHT-DRIVEN IMPACT IN REAL MISSIONS

EUTELSAT ONEWEB CONSTELLATIONS OPERATIONS

- Customized early anomaly detection via multivariant analysis
- Developed data-driven thruster modelling for short- and long-term performance prediction.
- Added functionality for teams to deploy their own ML models, increasing flexibility and autonomy.

AVIO VEGA LAUNCH CAMPAIGN

- Co-developed a solution for pre- and post-flight analysis.
- Integrated fast telemetry inspection.
- Enabled predictive anomaly detection workflows.
- Extended capabilities to include AI-based image diagnostics.

TYVAK INTERNATIONAL SATELLITE MONITORING

- Supported anomaly management on a 6U CubeSat.
- Implemented rule-based detection across subsystems (e.g. ADCS, NMU, Sun Sensors).
- Enabled anomaly duration tracking and cross-team dashboards.
- Improved workflow efficiency and reduced manual workload.

TRUSTED BY



SPACE MISSIONS MOVE FAST. YOUR DATA ANALYSIS SHOULD TOO.

Ready in 4 months, with zero lock-in. Let's schedule a live walkthrough or explore your use case together.



BOOK A DEMO