



JARVIS DATA TOOL

Real-Time Data Quality & Analysis Framework

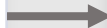
Monitor. Analyse.
Anticipate.



Test and race data: an asset worth protecting.

WITHOUT JARVIS

- ✗ Manual, time-consuming and incomplete control
- ✗ Data anomalies discovered late or never
- ✗ Multi-signal analysis that is tedious and subjective
- ✗ Post-session reports that take hours
- ✗ Aliasing, freeze and anomalies in signals go undetected



WITH JARVIS DATA TOOL

- ✓ Real-time and continuous monitoring
- ✓ Anomalies detected automatically in real time
- ✓ Objective advanced multi-signal correlation
- ✓ Automatic reports generation
- ✓ Detection of aliasing, freeze and anomalies

Six capabilities. One unified platform.



API Connectivity

Interface with any customer system via standard API.
Integration with eventual existing infrastructure.



Open Modular Architecture

Customer-developed plugins and models natively integrable.
Expandable without limits, without lock-in.



Multi-Signal Correlation

Advanced analysis to correlate heterogeneous signals,
comparison with simulations and first principles models



Data Check

Automatic identification of aliasing, NaNs, freeze or missing
signals, for reliable analysis.



Anomaly Detection with AI

Adaptive deep learning that learns autonomously from the real
vehicle behavior, identifying the anomalies



Automatic Report

Generated without manual intervention: acquisition status,
transmission errors, critical issues.

What Jarvis does, in practice.

01 Data Check

Automatically identifies missing signals, freeze signals or inconsistencies.

02 IMU Consistency

Verifies consistency and calibration of the inertial measurement unit.

03 Spikes and Noise

Automatic analysis of spike and noise components to assess sensors quality.

04 Statistical Analysis

Descriptive statistics and correlation analysis across multiple signals in seconds.

05 Aliasing Detection

Identifies aliasing phenomena on sampled signals before they compromise analysis.

06 Anomaly Detection AI

Deep learning that flags unexpected behaviours in raw data, in real-time.

07 Virtual Sensors

Estimates quantities not directly measured via surrogate models and machine learning models.

08 Real-Time Vehicle Status

Continuous reconstruction of vehicle state from the fusion of multiple data sources.

09 Acquisition Validation

Data acquisitions completeness and correctness reports.

Bring in what you have already built.

Jarvis Data Tool does not replace your team's know-how: it amplifies it. Analysis models, proprietary algorithms and internally developed features can be integrated directly as plugins into the platform. The result: a system that combines the robustness of a proven framework with the specificity of your technical expertise.



Connect

Any system via standard
API



Extend

Customer plugins and
models integrable



Evolve

The platform grows with
your needs

**Without rewriting
anything.
Without losing anything.**

Your models and algorithms integrate as native plugins — on a robust framework, already validated in a motorsport environment.

ROI: why Jarvis pays for itself



Failed Test Session

Direct costs:

Rerun tests completely

Indirect costs:

Development delays

Cause:

Missing or unreliable data not detected in time



Race Performance

Risk:

Overlooking critical data during the race

Impact:

Wrong decisions in real time

Outcome:

Final performance compromised



Team Efficiency

Time saved:

Fewer people do better work

Better results:

More accurate and complete analyses

Cost reduction:

Optimization of human and operational resources



**Reliable
Data**



**Early
Detection**



**Team
Efficiency**



**Measurable
ROI**

Just one saved test — or one performance improvement — covers the entire Jarvis investment

Stop losing value In your data.

Every test or race session generates valuable data.
Jarvis Data Tool ensures none of it goes to waste.



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Real-Time

monitoring data quality

AI

adaptive anomaly detection

Analysis

advances analysis, surrogate
models and virtual sensors

Open

plugin & customer models

API

universal integration