StellarAi™

FOR RAPID & PRECISE DEVELOPMENT IN AUTOMOTIVE TESTING

DriveTech™
INTELLIGENCE
Making sense of Data

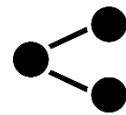## Web-based, Intelligence-driven, Data Analytics Platform for:

- Cross-vertical Test Data Management

- Automated Data Analysis

- Collaborative Dashboards for the entire Test Team
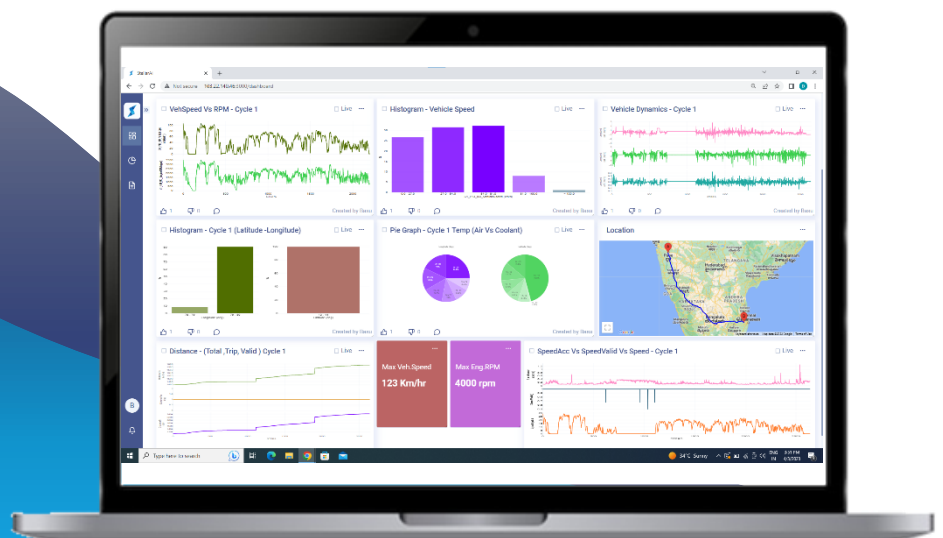
- Auto-report Generation & Sharing

Analyze   Collaborate   Share

Secure

What is it?

StellarAi is a revolutionary platform for Automotive Test Data Analysis & Management. Its advanced features and cutting-edge technology deliver automated analysis and insights to Automakers from test data in record time; enabling rapid and precise development of prototype vehicles.

Key Points:

- **Delivers accurate results in a fraction of time.**

- **Users can focus on Insights instead of Manual data analysis**

- **Based on DriveTech's purpose-built ATDA-ML Engine**

- **Offers a progressive analytical pipeline:**
  Basic > to > Advanced ML-based analysis.

In short, StellarAi is disrupting the field of automotive test data analysis, providing automakers with the tools they need to make informed decisions quickly and accurately.
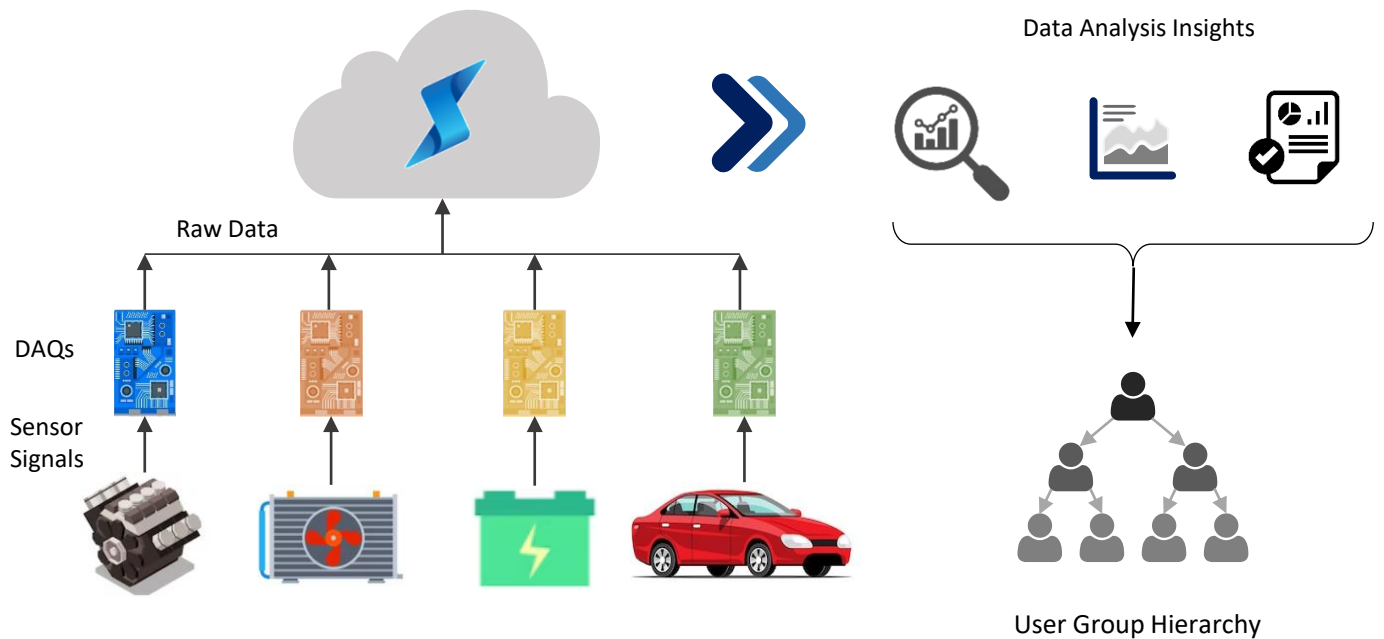
Raw Data

Insights

Where is it used?

- **EV & PHEV Powertrain Testing**

- **Component Testing**

- **Data Post Processing**

- **End-of-line Testing**

- **Climate Testing**

- **Fleet Testing & Management**

- **Road Testing**

- **NVH Analysis**

- **Vehicle Dynamics testing**

- **Engine Testing**

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Data Flow:

Data Analysis Insights

Raw Data

DAQs

Sensor
Signals

User Group Hierarchy

Salient Features:

Automated Data Analysis
Pre-defined, User specific Analysis Templates

Compatible with all File Formats
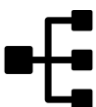(.mf4, .log, .mdf, .dat, .csv, .txt etc.)

Secured & Centralized Data Warehouse
Cloud-based / Local Server-based Data Repository

Collaborative Dashboards & Auto-gen Reports
Access, visualize, manage & share data from anywhere

Wide range of solutions on a single platform
Range of Data Analysis capabilities

Analysis Pipeline:

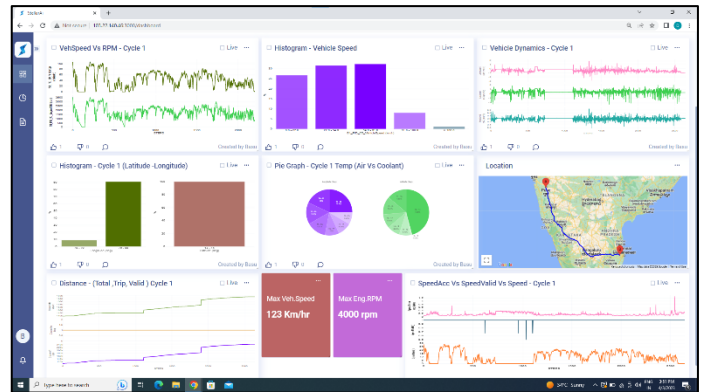StellarAi offers a progressive analysis pipeline that delivers insights as follows:

	A	B	C	D
→	**Visual Analysis (Cognitive)**	**Threshold Analysis (Simple Mathematical)**	**Automated Analysis (Algorithmic)**	**ML Based Analysis (Coming Soon)**
Input	Raw Data	Raw Data	Processed, Normalized	Processed, Normalized
Process	Simple visual & cognitive analysis e.g. Trend Lines	Identification of threshold breaches in data points.	Advanced algorithms, statistical transformations, with advanced analytics templates	Advanced ML techniques for data classification, prediction, anomaly detection, and pattern validation.
Output	Graphical data representation: Line, Pie, Histogram	Graphical and textual representation	Text summary of analytics with graphical data representation	Automated analysis (C) + Recognition, Comparison & Differentiation
Purpose	Basic visual data check	Boundary conditions check	Automated test highlights in consumable format. highlighting results.	Automated contextual validation, e.g. varying data patterns for SPEED Vs TORQUE

Highlights:

- StellarAi offers an incremental pipeline, starting with the most basic analysis i.e., Visual Analysis, and moving on to the most advanced (ML based) forms of data analysis.
- Every analysis stage yields a consumable result, in form of Information table (textual) and/or graphical representation of data/statistics.
- Every incremental stage offers deeper insights & reveals more information than the previous one.
- Output from every stage can be shared, and commented upon by various stakeholders, with downloadable report files for quick access.
- The Analysis Pipeline is completely automated and can be run on one or more files, selectively.

Dashboards:

- Project-wise, shared Dashboards with graphical analysis, images, videos, & information tables.
- Highlight events & access vehicle GPS tracking data.
- Dashboards for Test Fleet Management.
- Traceability & retention.
- Shared across Project Members.

Data Analysis:

- Fully automated, progressive Analysis Pipeline.
- In-depth analysis - from Threshold to Algorithmic.
- Time based data visualization & annotation.
- Sub-system analysis benchmarking vs. historic data.
- Automated graphical subsystem analysis.
- Custom / pre-built algorithmic analysis bundles.
- Ready to consume insights in tabular format.

	DAQ Frequency		Conflicts	
	9 ms		3	ⓘ

Parameter	% Below Min	% Above Max
S1_PID_05_En...	0	34.78
S1_PID_0D_Ve...	0	1.81
Altitude	100	0

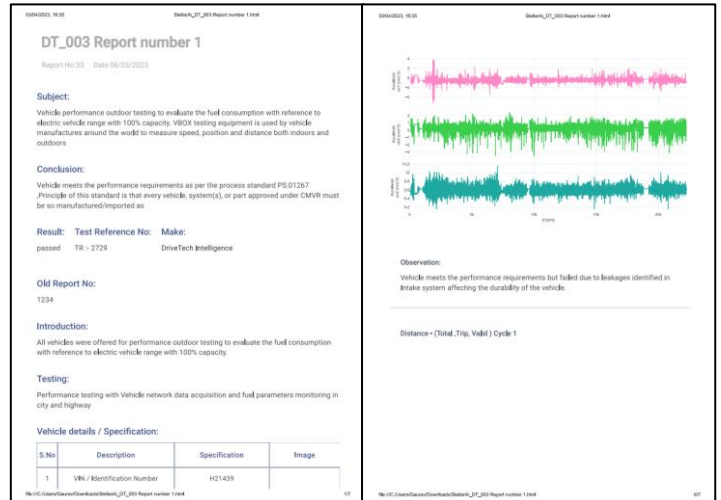|	DAQ Frequency		Conflicts	
	9 ms			
	9 ms		2	ⓘ
	9 ms		1	ⓘ

Data Management:

- Data Ingestion in any file format.
- Centralized repository for entire Automotive Test Data with secure, on demand access.
- Automatic detection of threshold breaches.
- Advanced searches across the entire data repository.

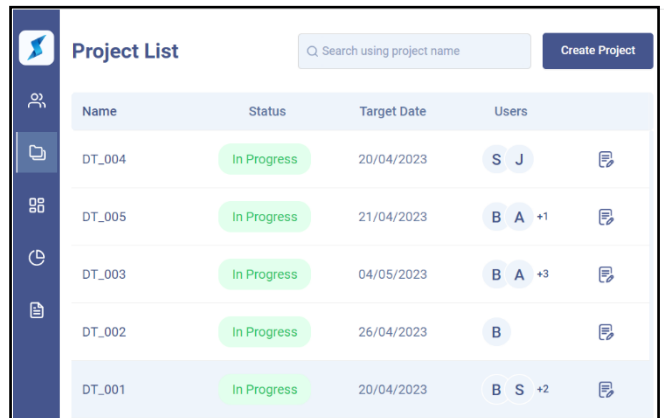| ☐ File Name (15)	Duration	Size	⇅ DAQ Frequency
☐ DT_File_15_29.02.23.mf4	00:28:10	5.13 MB	1 ms
☐ DT_File_14_29.02.23.mf4	00:28:08	5.02 MB	1 ms
☐ DT_File_13_29.02.23.mf4	00:28:13	5.12 MB	1 ms
☐ DT_File_11_29.02.23.mf4	00:28:18	5.07 MB	1 ms
☐ DT_File_12_29.02.23.mf4	00:28:28	5.04 MB	1 ms
☐ DT_File_10_29.02.23.mf4	00:28:09	5.09 MB	1 ms

Reports:

- Built-In reporting tool for publishing & sharing test findings.
- Fully customized online (HTML) / offline (.pdf) reports as per user's corporate identity.
- Complete Ingestion-Analysis-Reports workflow in a fraction of the time.
- Add analysis evidences, images, tabular data, interactive graphs, vehicle specs, test details etc. to reports
- Tag reports as: Passed / Failed
- Share and collaborate before marking report complete.

Collaboration:

- Built-in enterprise collaboration for – commenting, sharing notes, approvals, & disapprovals, with real-time notifications.
- Collaboration across departments, offices, geographic locations with selective sharing
- Traceable collaboration history.

Roles & Permissions:

- Built-in permissions model to control access to Data, Analysis, Reports & Collaboration.
- Admin Role to manage all activities.

Why Stellar?

- Agility & flexibility of data analysis.

- Highly Customized plug-ins.

- Quickest Customer Support: Remote & On-site.

- Local Service Teams for Minimized Down-time.

Ordering Information:

Product	Description
StellarAi Base License	Base License with functionality: Project Mgmt., Data Mgmt., Data Analysis, Dashboards, & Report Generation
Add-on: Analysis Bundles	Preset Algorithmic Analysis Bundles for Quick & Advanced Data Analysis

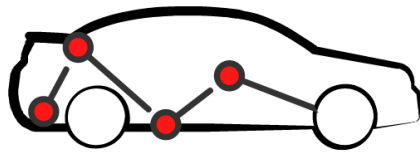**Start your StellarAi journey with a 100% Free of Cost Pilot Project:** Get Shareable dashboards, Automated Insights, Reports as per your focus areas, and document formats; in fraction of time.

Contact us:

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SCAN TO GET IN TOUCH

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