

ALTAIR® RAPIDMINER® FOR AEROSPACE

Aerospace operations require additional human-in-the-loop with low-volume/high-quality production, but this doesn't mean that data analytics isn't becoming a necessity to solve business challenges. Often, there aren't enough data science experts or adequate data processing methods put in place, so data's potential remains dormant. [Altair® RapidMiner's®](#) leading data analytics and artificial intelligence (AI) platform drives enterprise-grade capabilities the industry needs to capitalize on the full power of data without needing to change people or existing data landscapes.

Core Capabilities:

- End-to-end data science platform from data prep to deployment, visualization, and ModelOps
- No-code to fully embedded Python modeling in a collaborative environment
- Scalable automation with real-time scoring or batch processing
- Edge data processing with Internet of Things (IoT) technology
- PDF and document data extraction
- Alternative SAS language environment
- Real-time visualization of analytics models
- Admin setup and security protections

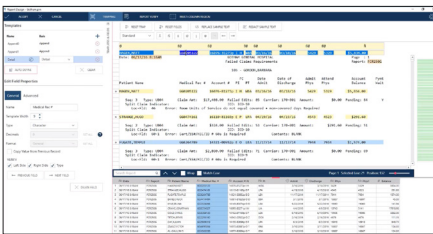
Key Differentiators:

- Independent and collaborative data science for non-coders and advanced coders in a single platform
- Convergence of simulation, high-performance computing (HPC), and data analytics
- No black boxes: explainable, editable, and transparent data science
- Free self-paced academy for data science learning of all skill levels
- Open access to all data suite tools through patented Altair Units licensing system

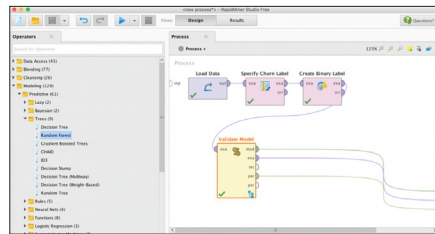
Common Aerospace Use Cases:

- Data exploration and AutoML
- Anomaly detection
- Root cause failure analysis (RCFA)
- Remaining useful life (RUL) analytics
- Text mining and NLP
- Image/video mining
- Supply chain/demand forecasting
- Operational equipment effectiveness (OEE)/smart manufacturing
- Additive manufacturing analytics
- Fleet management analytics
- Real-time and closed-loop process automation

Data Prep



Data Modeling and Deployment



Data Visualization



PDF and Document Data Transformation

Automate the acquisition and preparation of data from virtually any source to streamline your processes and increase efficiency. Extract data from reports, spreadsheets, databases, and applications, then transform into the format needed to automate labor-intensive and error-prone processes. [Learn more about Altair® Monarch®.](#)

End-to-End Data Science Platform

Build trusted analytics and machine learning models with confidence, leveraging engineers, analysts, and data teams to work independently or collaboratively in the same environment. Scale as needed from desktops to on-premises servers to secure, cloud implementations. [Learn more about Altair® RapidMiner Studio and Altair® RapidMiner® AI Hub Automated Server.](#)

Real-Time Data Visualization

Perform visual analysis of real-time, time series, and historic data at nanosecond refresh rates. Create actionable, interactive business intelligence dashboards without needing to write a line of code. Use them to spot anomalies, trends, outliers, or display other important KPIs and share the results across the organization. [Learn more about Altair® Panopticon™.](#)

Alternative SAS Language Environment:

Maintain and run programs written in SAS language syntax without translation and without needing to license third-party products. Mix Python, R, and SQL with the SAS language. Deployed via the cloud, a new on-premises platform, or a hybrid setup. [Learn more about Altair SLC™.](#)

Smart IoT at the Edge:

Quickly build scalable, secure, customer web and mobile applications that connect to smart products. Model anything that needs to communicate with products and communicate with those products in real time. Store your entire fleet's data and query it, fast. Onboard thousands of users and easily control access. [Learn more about Altair® IoT Studio™.](#)