



THE POWER OF PREDICTION Every day, executives in defense agencies and departments are challenged with defending the nation from countless threats while also dealing with reduced resources.

Success hinges on the ability to deliver rapid insights from data, and nowhere is the need to make fast and accurate predictions more critical than in national defense. For example, effective predictive analytics are crucial for:

- **THREAT REDUCTION** Identifying vulnerable locations and facilities, improving situational awareness for warfighters on the battlefield, and flagging indicative characteristics of terrorist networks and their participants are all vital to the safety of service members and citizens.
- **PREDICTIVE MAINTENANCE** Accurate, timely predictions on the current status and potential for failure of critical infrastructure, systems, vehicles, and other equipment can dramatically improve efficiency and focus limited resources on the right places.
- **CYBERSECURITY** Proactively signaling entities that are at risk of compromise and predicting insider threats keep networks and crucial digital assets secure.

By quickly extracting insight from data through automated machine learning, federal defense agencies can apply powerful predictions to drive smart decision-making for better mission outcomes.

IMPROVING MISSION OUTCOMES WITH DATAROBOT

DataRobot distills the knowledge of the world's top data scientists into its automated enterprise machine learning software platform, empowering users of all skill levels to make predictions with greater accuracy, in a fraction of the time traditionally needed.

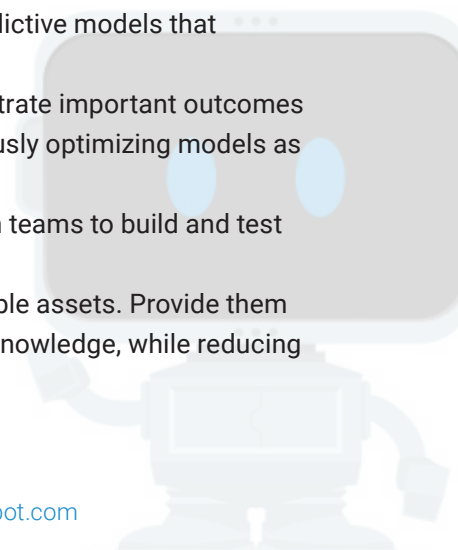
Whether your agency has a team of data scientists or just a few analysts, DataRobot can help your data-driven programs tackle more challenges and deliver greater impact.

DataRobot can support your agency's top challenges, including:

- Cybersecurity
- Threat Reduction
- Strategic Conflict
- Counterterror
- Predictive

The DataRobot platform helps defense agencies:

- **IMPROVE ACCURACY.** Run datasets through hundreds of proven models simultaneously in seconds to find the most accurate predictive model for your data.
- **REDUCE PROJECT DELIVERY TIME.** Conventional data science projects can take months to complete. Compress the cycle by developing, validating, and deploying predictive models that empower data-driven decisions in days rather than months.
- **CLEARLY COMMUNICATE OUTCOMES.** Real-time visualizations demonstrate important outcomes to leadership and key stakeholders, showing different results and continuously optimizing models as variables change.
- **INCREASE CROSS-TEAM COLLABORATION.** Collaborate across mission teams to build and test custom algorithms and workflows.
- **REDUCE RESOURCE STRAIN.** Your data scientists and analysts are valuable assets. Provide them with tools to expand their capabilities and capitalize on their deep domain knowledge, while reducing the need to hire additional contractors or staff.





END-TO-END DATA SCIENCE

By automating the machine learning process from data to deployment, DataRobot allows you to quickly deploy and scale your organization’s data science efforts. DataRobot builds on algorithms from R, Python, H2O, Apache Spark and XGBoost and leverages open source data processing, storage and resource management frameworks such as Docker, Apache Hadoop, GlusterFS, Redis and MongoDB.



AUTOMATED TEST PLANNING	DataRobot reads and profiles data from a wide variety of sources, automatically correcting issues along the way.
AUTOMATED LEARNING	DataRobot learns from your data using different techniques, validates what it learns with experimental data, and displays the results so you can choose the best predictive model for your data.
AUTOMATED FEATURE ENGINEERING	DataRobot automatically preprocesses data for best results with the technique to be tested.
AUTOMATED DATA PREPARATION	DataRobot uses information about your data and your business problem to select precisely the right mix of machine learning algorithms to test.
AUTOMATED DEPLOYMENT	DataRobot offers a real-time prediction engine and a batch prediction engine for Hadoop. Prediction engines run independently of the learning engine, with self-service APIs, so your data scientists can continue working on current projects as new predictions are needed.

SECURE DATA SCIENCE FOR EVEN THE MOST SENSITIVE PROJECTS

DataRobot understands that data-driven challenges in the government involve sensitive data at all classification levels. Our solution was built from the ground up with security requirements like FedRamp and FISMA in mind. We offer two secure deployment models:

• **ON-SITE DEPLOYMENT**

DataRobot is deployable on premises in a secure data center in freestanding clusters or in Hadoop. DataRobot integrates natively with Cloudera, leveraging Cloudera Manager for easy deployment and low maintenance.

• **SECURE CLOUD DEPLOYMENT THROUGH GOVCLOUD AND C2S**

DataRobot meets the requirements of the CIA’s C2S cloud. DataRobot is also available on AWS GovCloud, which has currently received a Provisional Authority to Operate (P-ATO) under the FedRAMP High baseline.

DataRobot can support you today!

We can leverage your datasets to run comprehensive proof of concepts and provide you with the tools you need, starting day one.

To see a video of DataRobot in action, visit www.datarobot.com

DEDICATED PUBLIC SECTOR GROUP

We have a dedicated Public Sector department to focus on how our product can work for your agency. Contact Government Lead Erin Hawley to discuss your specific needs or request a demo.

