The power of prediction

Every day, executives in defense agencies and departments must defend the nation from many threats while also dealing with reduced resources.

DoD's 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, powerful predictive analytics are crucial for:

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

Threat reduction
Identifying vulnerable locations and facilities, improving situational awareness for warfighters, and flagging indicative characteristics of terrorist networks are all vital to the safety of service members and citizens.

Predictive maintenance
Accurate, timely predictions fo the failure of critical infrastructure, systems, vehicles, and other equipment can focus limited resources on the right places.

Cybersecurity
Proactively signaling entities that are at risk of compromise and predicting insider threats keep networks and vital digital assets secure.

DataRobot can support your agency's top challenges, including Insider Threat, Threat Reduction, Strategic Conflict, Counterterror.

Improving missions outcome with DataRobot

DataRobot distills the knowledge of the world's top data scientists into its automated 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.

End-to-end data science

By automating the machine learning process from data to deployment, DataRobot allows you to deploy and scale your organization's data science efforts quickly. 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 Apache Hadoop.

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 as well as a partnership with HortonWorks.

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 automated...

DataRobot reads and profiles data from a wide variety of sources, automatically correcting issues along the way.

Learning
DataRobot learns from your data using different techtiques, validates what it learns with experimental data, and displays the results so you can choose the best predictive model for your data.

Data preparation
DataRobot uses information about your data and your business problem to select precisely the right mix of machine learning algorithms to test.

Feature Engineering
DataRobot automatically preprocesses data for best results with the technique to be tested.

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 API's, so your data scientists can continue working on current projects as new predictions are needed.

DataRobot can support you today!

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

DataRobot
for Department of Defence