

# The power of prediction

Every day, government agencies balance the public's need for services with the directive to "do more with less."

Success across every agency hinges on the ability to deliver rapid insights from data, and providing services in the current environment requires fast and accurate predictions. 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 decision-making for better mission outcomes.



## Fraud detection and prevention

Predicting misappropriation of funds, or identifying fraudulent claims in programs such as Medicare and Medicaid.



## Public health and safety

Predicting deadly disease outbreaks and analyzing response options.



## 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.**

## DataRobot helps 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 meaningful 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.

## 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.

## 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.

## 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 techniques, 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. Contact us to discuss your specific requirements or request a demo.