

5 Ways AWS Cloud AI and ML Capabilities Fortify the Public Sector

Today's public sector organizations are using AWS cloud capabilities, including artificial intelligence (AI) and machine learning (ML), to assess large data sets and provide intelligent recommendations to improve citizen and student services, while bringing new capabilities closer to the tactical edge for warfighters. In time, AWS expects that virtually every application will be infused with AI and ML to help drive mission outcomes, lower costs, save valuable time, and more.

5 ways that AWS cloud AI and ML technologies are strengthening the public sector include:

Intelligent IoT Solutions

AWS brings AI, ML, and IoT (Internet of Things) together to make devices more intelligent. Organizations that create models in the cloud and deploy them to devices achieve up to 25x better performance and less than 1/10th the runtime footprint.2

Improved Threat Detection AWS domain reputation ML models can deliver high-fidelity threat detections, identifying malicious domains 7–14 days before identification and availability on commercial threat feeds.3

Better Constituent Services Deploying virtual agents,

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chatbots, and conversational interactive voice response (IVR) systems with cloud contact center intelligence helps constituents to resolve their issues more quickly and accurately.

FACT

customers are using AWS for their

AI/ML workloads, covered by

22 compliance programs (FedRAMP, SOC 1/2/3, ISO, PCI, HIPAA,

and more).4

-AI-Enabled Contact Center

Public Sector AI/ML use cases:

- -AI for DevOps
- -AI for Healthcare
- -AI for IT Operations
- -Anomaly Detection
- -Automated Content Creation -Autonomous Systems
- -Chatbots and Virtual Assistants
- -Content Moderation -Cybersecurity
- -Digital Twin/Advanced Digital Simulation -Forecasting
- -Fraud Detection
- -Identity Verification/Facial Recognition
- -Intelligent Document Processing
- -Intelligent Search
- -Machine (Language) Translation -Media Intelligence/Image Matching
- -Personalization -Predictive Maintenance

-Modernization

- -Process Automation
- -Quality Control -Supply Chain Optimization
- -Synthetic Data
- -Workplace Safety ...and many more.⁵

-Visual Inspection

Real-time Data Platform Insights Public sector organizations

that move to the AWS cloud can leverage AI and ML to deliver real-time insights to critical stakeholders to support strategic and tactical decision making. The AWS cloud data management environment helps address dynamic workloads and enables stakeholders to test and implement new technologies. For example, military leaders can automate and scale manual sensor-toshooter processes and use advanced analytics, AI, and ML to increase shooter accuracy, particularly for targets beyond the line of sight.

tions using AI algorithms and

Predictive maintenance solu-

Predictive Maintenance

data analytics tools help agencies and municipalities with any-sized field operations or fleets to monitor operations, detect anomalies, and predict possible defects or equipment breakdowns before they occur.

Contact us to learn more about how your organization can \circ use AWS cloud Al and ML • to advance your mission.

the-building-blocks-of-artificial-intelligencefor-government 2 https://aws.amazon.com/iot

1 https://aws.amazon.com/blogs/publicsector/

- 3 https://aws.amazon.com/blogs/security/top-2021-aws-security-service-launches-part-1
- 4 https://aws.amazon.com/sagemaker/ 5 https://aiexplorer.aws.amazon.com/?lang=en

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