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:

1 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]

3 Better Constituent Services

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

FACT

100,000+

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]

Public Sector AI/ML use cases:

- –AI-Enabled Contact Center
- –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
- –Modernization
- –Personalization
- –Predictive Maintenance
- –Process Automation
- –Quality Control
- –Supply Chain Optimization
- –Synthetic Data
- –Visual Inspection
- –Workplace Safety
- …and many more.[5]

4 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-to-shooter processes and use advanced analytics, AI, and ML to **increase shooter accuracy, particularly for targets beyond the line of sight.**

5 Predictive Maintenance

Predictive maintenance solutions using AI algorithms and 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 use AWS cloud AI and ML to advance your mission.

1 https://aws.amazon.com/blogs/publicsector/the-building-blocks-of-artificial-intelligence-for-government
2 https://aws.amazon.com/iot
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