



Federal AI Implementation for Data Management



Effective communication and data exchange are essential to government modernization initiatives. Experts from the Library of Congress, Treasury Department and Maximus will explore how AI can benefit data management for mission delivery.

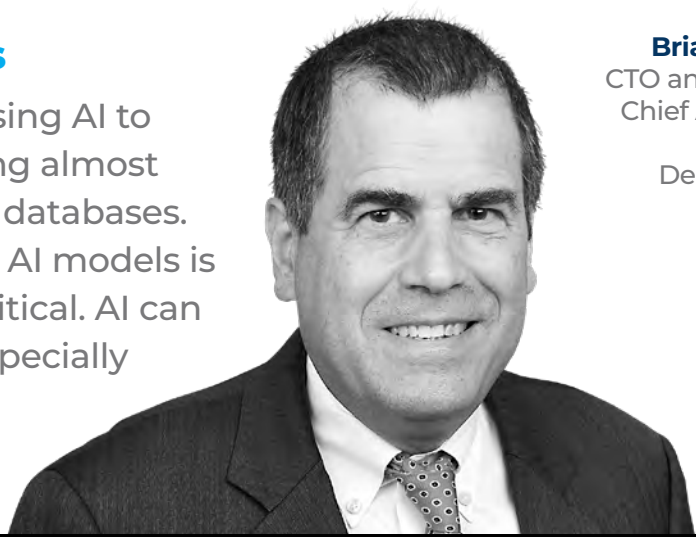
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Future of AI & Data in Federal Agencies

- 1 AI Integration Challenges:** AI models evolve quickly, making governance and management difficult. Agencies need to monitor for model drift and performance degradation, which requires a different governance process compared to traditional IT systems.
- 2 Model Ownership:** It's important to define ownership of AI models—whether it belongs to IT, compliance or legal teams—especially for decisions like rolling back degraded models.
- 3 AI's Future Impact:** AI will automate many tasks, but it requires building governance processes that allow autonomous decision-making. AI can also help solve data interoperability issues by standardizing different data formats.

Leveraging AI & Data Analytics

The Treasury Department is harnessing AI to prevent fraud, successfully recovering almost \$380 million by applying AI to fraud databases. Ensuring that the data used to train AI models is free from bias and inaccuracies is critical. AI can help in other areas beyond fraud, especially in managing vast data for decision-making and benefiting taxpayers.



Brian Peretti
CTO and Deputy
Chief AI Officer,
Treasury
Department



AI Governance & Privacy

Proper governance models are essential to ensure that AI systems respect privacy, legal frameworks and ethical boundaries. Governance needs to evolve with the AI systems being deployed. Poor data can degrade model performance, so governance must ensure data quality and integrity. Privacy, legal and civil rights issues are essential in AI governance. Agencies must ensure data use complies with legal standards and does not infringe on civil liberties.

“
With today's tools, for example image processing, someone could process images and connect the dots on someone's identity in ways that were never clear before and we have to be careful of that as well.
”



Natalie Buda Smith
Digital Strategy
Director, Library of
Congress

Integrating AI Into Data Management Processes

OPPORTUNITIES:

Data Analytics for Decision-Making:

- The Library of Congress uses AI for decision-making and performance monitoring, handling around 185 petabytes of data.

IT Governance:

- The Library of Congress leverages strong IT governance to integrate AI, categorized into three areas: existing third-party AI services, task-oriented AI tools and experimental AI models.

CHALLENGES:

Legacy Data and AI:

- One challenge is applying AI to older data, especially when privacy standards have evolved. AI can now extract identity-related information from historical data, raising privacy concerns.

Employee Concerns and Upskilling:

- AI brings both nervousness and opportunity. Workers might fear job loss, but AI will likely shift roles, requiring upskilling and offering more meaningful work.

AI Accelerates Decision-Making

AI is speeding up decision-making processes at federal agencies, particularly in data management. Agencies must adapt to new challenges integrating AI with legacy systems with large amounts of data, maintaining data privacy and preparing federal employees for an AI-driven future.



James Bench
Managing Director,
Federal Technology,
Maximus

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