

AI in 2020: Just get started

Automating mundane activities is a simple yet powerful way to begin using artificial intelligence

ARTIFICIAL INTELLIGENCE IS the most transformative technology of our generation. We are at the forefront of the fourth industrial revolution, where intelligent machines will help humans with repetitive, mundane tasks, allowing people to focus on higher skilled, mission-critical job functions.

Technology companies, the early adopters of AI, have been aggressively investing in and deploying AI. And we are seeing this trend continue into the broader market. Gartner predicts that by next year, 70 percent of organizations will boost their employees' productivity by

integrating AI in the workplace.

But what does this mean for the public sector? Federal agencies need to move quickly to harness this game-changing technology. Some have already started – we're seeing AI automate drug intake forms at the FDA, verify IT credentials at the Defense Department and automate financial transfers at the Treasury Department. With the federal government being one of the largest collectors of data, AI has great potential for every agency.

Start with automation

According to a 2019 Ernst and Young report, about 93 percent of an HR

employee's work hours are spent on repetitive tasks, and about 65 percent of those tasks can be automated. Robotic process automation (RPA) can train machines to take on tedious and time-consuming tasks such as payroll, claims processing and benefits administration. Many companies and agencies are using RPA to reshape the modern workforce and liberate employees from repetitive tasks.

For example, the president's fiscal 2020 and 2021 budget mentions 30 initiatives that are using RPA and AI to make agencies more efficient.

RPA can be simple to manage and needs only minor workforce reskilling. Sixty-six agencies including the General Services Administration and Air Force are already using RPA from UiPath, which has freed thousands of full-time equivalent employees to focus on higher-level work while reducing cost. UiPath offers agencies Task Mining, Task Capture and Process Mining to accelerate the design and build phases of the RPA process, making it easier to implement and scale automation.

UiPath harnesses the power of NVIDIA's AI platform to accomplish mission and business processes. Getting started is as simple as downloading UiPath's software application. UiPath AI Fabric helps agencies leverage the increasing presence of AI to ensure that their investment in RPA today is the down payment on their AI program tomorrow.

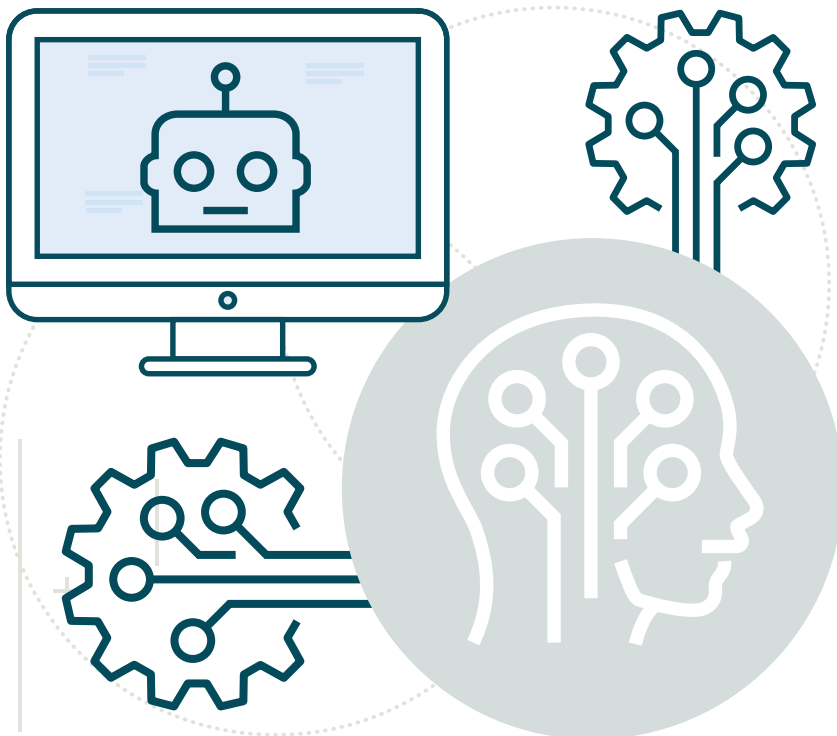
Harnessing AI with NVIDIA GPUs

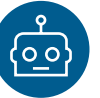
Some agencies may want access to hardware to develop algorithms or analyze data on their own, and there are many ways to do



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that without building or reconfiguring a data center. NVIDIA GPUs are available for deep learning training, inference and accelerated analytics from NVIDIA, OEMs and leading cloud service providers. For a full-stack AI system, leveraging GPUs and architecturally optimized for AI workloads, agencies can look to NVIDIA DGX Systems. Through NVIDIA DGX-Ready Data Center partners, agencies can de-risk their initiatives with a test drive approach that lets them kick the tires

before they deploy. Additionally, the DGX-Ready Data Center program offers a network of colocation providers certified and ready to host DGX infrastructure, helping teams avoid capital budget spent on data center facilities.

In terms of deep learning training, there are many ways to get up to speed, including online courses from organizations like Coursera, edX, [NVIDIA's Deep Learning Institute](#) and Udacity. Instructor-led training is also available from a number of data

science bootcamps and places like GTC.

These are among a few examples of how government agencies and other organizations can harness AI to increase efficiency, ultimately saving time and money. The AI revolution is well on its way and you don't want to be left behind. Get started at nvidia.com/deploy-ai. ■

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