

DELLTechnologies

Accelerate your innovation

with the Dell AI Factory



Artificial intelligence (AI) continues to transform how organizations operate and innovate.

The impact, pace of adoption and potential of AI are all unparalleled. Recent Dell Technologies research affirms most organizations are using GenAI¹ and report seeing significant value from AI.² Unfortunately, many also struggle with traditional IT infrastructures and operating models that can't handle its rigorous demands, as well as with deepening AI skills gaps.

Leading your organization to thrive in this exciting era means ensuring AI is adopted effectively and pervasively. You need intentional alignment between IT and the business across your use cases, data strategy,

infrastructure, partner ecosystem and operations. Establishing an AI factory is how you'll achieve this, while realizing the fast, consistent outcomes you require for a competitive edge.

Just as physical factories fueled the Industrial Revolution, AI factories will drive the AI revolution, creating actionable intelligence, fresh content and new insights. **The Dell AI Factory is our proven approach to accelerate innovation in organizations of all sizes — and a pragmatic course of action to drive five priority initiatives.**

Organizations that are already seeing significant ROI and productivity gains from AI implementations:³

75%





Initiative 1:

Determine your highest-value AI use cases to meet your business objectives



Your path to AI success begins with clarity of purpose. That's why, to build an AI factory, we start with your use cases in mind. Many organizations have hundreds of potential AI use cases, but it's unrealistic to pursue them all. Instead, prioritize those that deliver the greatest business value and are technically feasible to achieve.

A focused approach ensures your resources funnel to initiatives that drive the most meaningful transformation. Dell Technologies will partner with you to identify the key AI use cases for you to focus on, as well as simplify how you deploy and scale them with our validated solutions.

93% of organizations experience challenges when integrating AI into their business strategies.⁴

6 common use cases for AI:



Content creation



Design & data creation



Digital assistant



Code generation



Digital twins



Computer vision



Initiative 2:

Ensure your data is accessible, accurate and secure



of business leaders think that data is the differentiator, and their GenAI strategy must involve using and protecting that data.⁵



of organizations fear that GenAI will create new security challenges.⁶

Data fuels the AI factory, powering the AI models that bring your use cases to life. But the success of any AI initiative depends on the quality of data used, and your organization’s most valuable data is likely spread between on-premises, in the cloud, and at the edge. You must ensure your data is accessible, accurate and secure wherever it lives.

To accelerate your AI adoption and innovation, you’ll need a modern approach to how you find, prepare and protect your data, and then select the right model to input this data into. With these foundations in place, you can focus on using your data to drive innovation rather than worrying about its management.

The Dell AI Factory brings AI as close as possible to where data resides to minimize latency, lower costs and maintain data security by keeping sensitive information within a controlled environment. It also offers a way to prepare this data for use by the AI factory, ensuring your organization is working with quality and accurate data, with easy access and built-in data governance.





Initiative 3:

Optimize your AI investment with right-sized infrastructure

Infrastructure is the foundation of every AI factory, but this foundation must be flexible because AI is rapidly evolving. Tailoring your infrastructure experience to the specific needs of your organization is important, so you drive your use cases without overprovisioning or spending more than required.

To accomplish this, first assess where your prioritized use cases need to be deployed to meet business needs. Get clear on the desired results you want to achieve. Then, determine what type of solution can best help you achieve those results (e.g., a pre-trained model or a customized solution that's been enhanced through model augmentation or fine-tuning).

After these decisions are made, you'll understand how to optimize your AI investment by right-sizing your IT infrastructure to the needs of your organization. **The Dell AI Factory supports diverse AI requirements with the world's broadest AI infrastructure portfolio that spans from cloud to client devices, all in one place.**⁷ We deliver advanced technology across all infrastructure areas, along with the benefits of an end-to-end portfolio for easier deployment, operation and maintenance of AI factory infrastructure.



Organizations implementing AI must prioritize:

- 1 Right-sized infrastructure that aligns with specific use cases
- 2 Energy-efficient solutions that support sustainability goals
- 3 Flexible platforms that can evolve with advancing AI capabilities



Initiative 4:

Increase your flexibility with a broad ecosystem of AI partners

Once you've determined your infrastructure needs, it's time to identify and engage with an ecosystem of partners that align with your unique requirements. No organization should embark on an AI journey alone; the complexity and pace of innovation associated with AI demand strategic collaboration. Working with experienced partners grants access to expertise, proven methodologies, and best practices that can accelerate your AI adoption while minimizing risks.

It's important to find a technology partner who can orchestrate the pieces of the solution into a simple, accessible package. That is exactly what the Dell AI Factory is for. We bring together leading AI

ecosystem partners to create validated solutions that make it easy for you to seamlessly integrate these AI technologies into your own AI factories.

For example, Dell Technologies and NVIDIA can help you leverage AI to drive innovation and achieve your business goals. The Dell AI Factory with NVIDIA is the industry's first and only end-to-end enterprise AI solution⁸, designed to speed AI adoption by delivering integrated Dell and NVIDIA capabilities to accelerate your AI-powered use cases, integrate your data and workflows, and enable you to design your own AI journey for repeatable, scalable outcomes.

Dell customers have achieved up to 70% improvement in productivity with Dell and NVIDIA AI solutions.⁹

70%

Dell and NVIDIA AI solutions for inferencing LLMs on-premises can be up to 75% more cost-effective than the public cloud.¹⁰

75%





Initiative 5:

Address AI skills gaps and simplify operations



AI works best when everyone in your organization puts it to use effectively. But it also brings new challenges to IT and operations teams. They need new knowledge, skills and tools to successfully operate and manage the new systems that run your AI models. Implementing consistency and simplifying processes in these areas will help them progress rapidly.

That's why professional services are a critical layer of the AI factory. The right partners can help you align your business and technology needs, while radically accelerating your organization's AI adoption and time to value from your AI investments.

Wherever you are in your AI journey, Dell Technologies provides expert assistance based on our extensive, global experience and comprehensive expertise in deploying AI at scale. In addition to a suite of AI Accelerator Services, we offer a wide range of GenAI training courses and associated certifications to provide new knowledge to your teams.

The scope of the AI skills gap, according to business leaders:



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Drive innovation with confidence

Success in the AI era requires more than just implementing the latest and greatest technologies — it demands a thoughtful approach to transformation that considers security, sustainability, and long-term business value. With proper planning and strategic partnerships, you can confidently navigate this exciting new frontier.

The Dell AI Factory is more than just a set of services or products; it's our approach to fuel faster innovation with data. Combining our broad AI portfolio and leading infrastructure with our open ecosystem and comprehensive services offerings, everything in the Dell AI Factory is designed to help you achieve cybersecurity and resilience, along with better AI outcomes for your business and the environment.

Partner with Dell Technologies to turn AI's boundless potential into your organization's competitive advantage.



**Make your greatest impact
with AI, with Dell Technologies
as your innovation catalyst.**
[Learn more here.](#)



About Dell Technologies

Dell Technologies (NYSE: DELL) helps organizations and individuals build their digital future and transform how they work, live and play. The company provides customers with the industry's broadest and most innovative technology and services portfolio for the AI era. Learn more at [Dell.com](https://www.dell.com)

- 1 Innovation Catalysts study, Dell Technologies, February 2024.
- 2 Dell Technologies survey across 750 business and IT decision makers across US, UK, DE, FR and JP, all segments, Feb 2025.
- 3 Ibid.
- 4 Ibid.
- 5 Ibid.
- 6 Ibid.
- 7 Based on Dell analysis, March 2024. Dell Technologies offers hardware solutions engineered to support AI workloads from workstations PCs (mobile and fixed) to servers for high-performance computing, data storage, cloud native software-defined infrastructure, networking switches, data protection, HCI and services.
- 8 Based on Dell analysis, July 2024. Dell offers solutions with NVIDIA hardware and software engineered to support AI workloads from PCs with AI-powered features and workstations to Servers for High-performance Computing, Data Storage, Cloud Native Software-Defined Infrastructure, Networking Switches, Data Protection, HCI and Services.
- 9 "Automating multistep processes and accelerating innovation with Generative AI," Dell Technologies, 2024.
- 10 Based on Dell analysis, July 2024. Dell offers solutions with NVIDIA hardware and software engineered to support AI workloads from PCs with AI-powered features and workstations to Servers for High-performance Computing, Data Storage, Cloud Native Software-Defined Infrastructure, Networking Switches, Data Protection, HCI and Services.
- 11 Dell Technologies survey across 750 business and IT decision makers across US, UK, DE, FR and JP, all segments, Feb 2025.