

DELL Technologies

vmware®

# The Time for Artificial Intelligence is Now

nvidia



# Drive innovation with AI

**In the drive to digital transformation** and the rise of the data-driven organization, artificial intelligence (AI) has emerged as one of the most important technologies to help organizations innovate. With the ability to quickly identify trends and patterns to improve everything from IT management to the customer experience and eliminating the manual tasks and processes that can be time-consuming and error-prone, AI is helping modern businesses save time and money while reducing risk.

Business leaders are recognizing the game changing potential, and competitive advantage, of AI. Organizations that fail to leverage AI today will fall behind their competitors tomorrow.

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**92%** of businesses report that the pace of AI investment is accelerating<sup>1</sup>

**49%** of businesses are driving innovation with data<sup>1</sup>

**77%** of Fortune 500 CEO's plan to start or already employ AI initiatives<sup>2</sup>

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The need to modernize, coupled with the massive amounts of data available, have fueled the adoption of AI as a business game changer.

1. [NewVantage Partners, Big Data and AI Executive Survey 2021](#)

2. [PWC 22nd CEO Global Survey 2021](#)



# Overcoming the challenges of AI adoption

Several key challenges regarding the implementation of an AI solution can cause a business's digital transformation to lose momentum. Identification and remediation are key to a successful AI strategy.

Together, Dell Technologies, VMware, and NVIDIA deliver simplified and high performance AI-ready solutions backed by partners with deep AI expertise.



## Complexity

The implementation of an AI solution can take weeks to months to architect and implement depending on the sophistication, scope and technical depth of the solution. And, once assembled, ongoing maintenance of the environment can be a complex and time-consuming task.

## Simplified AI

Jointly engineered and validated solutions make it quick and easy to deploy a hardware and software stack optimized to accelerate AI initiatives.

Dell Technologies Validated Designs for AI enable **18-20% faster configuration and integration**, saving 12 employee hours a week with automated reconciliation feeds.



## Speed

Increased data acquisition to support business insights requires the adoption of new AI solutions. As these solutions evolve, organizations are challenged to keep pace and ensure alignment with business strategy.

## High performance

High performance improves AI model training accuracy with fast access to larger data sets, enabling live inferencing at scale to drive real-time, actionable responses.

Dell Technologies Validated Designs for AI enable **18X faster AI models**—two to three days instead of one to two months.



## Lack of expertise

78% of AI/ML projects stall before deployment — one-third of them at the PoC stage due to lack of effective resources or dedicated technical experts to help facilitate an AI implementation.<sup>1</sup>

## AI expertise

Deploying an engineering-tested validated AI solution backed by world-class services and support helps you confidently plan, implement and optimize AI solutions anywhere you are in your journey.

Customers can **deploy with confidence** knowing that that mission-critical AI projects will stay on track with world class support.

1. White paper: What Data Scientists Tell Us About AI Model Training Today

2. Robotics Business Review, Almost 80% of AI and ML Projects Have Stalled, Survey Says, May 2019.

# AI is already making an impact.

AI offers tremendous potential for specific industries. If implemented in the right way—it can help you optimize operations, improve overall productivity and utilize manpower for more important tasks. Discover the possibility, power, and performance of AI computing from concept to reality in your market.

<b>Healthcare and life sciences</b>	Healthcare and life sciences demands new computing paradigms to meet the need for personalized medicine, next-generation clinics, enhanced quality of care, and breakthroughs in biomedical research to treat disease. Now, healthcare institutions can harness the power of artificial intelligence and high-performance computing (HPC) to define the future of medicine.
<b>Manufacturing</b>	Harness AI and technology breakthroughs in engineering, simulation, production, remote collaboration, and visualization to revolutionize design, transform engineering, and power the factory of the future. From CAD to structural analysis to CFD, our software can fundamentally change the way you work.
<b>Retail</b>	From supply chains to stores—online and physical—AI helps retail run more efficiently and keeps employees and customers happier. Discover how retailers are using our solutions to power autonomous shopping, improve forecasting, automate warehouse logistics, and deliver better, more personalized customer experiences.
<b>Public sector</b>	In one of the largest technology transformations ever undertaken, a revolution is happening right now amongst the government agencies and municipalities. AI is impacting new developments in cybersecurity, healthcare, life sciences, platform sustainment, humanitarian response, and disaster relief. We are at the forefront of this democratization of AI, building the technology that will make communities safer and more connected everywhere.
<b>Financial</b>	Intelligent technology can address critical challenges within the modern financial services industry. With our solutions—including deep learning, machine learning, and natural language processing—institutions can boost risk management, improve data-backed decisions and security, and enhance customer experiences.





## Collaboration, validation and certification

Dell Technologies, VMware, and NVIDIA are working together to provide simplified AI solutions that can be used to solve complex problems around the world.



### **Dell Technologies Validated Designs for AI**

The [Dell Technologies Validated Designs for AI](#) includes the latest version of [VMware vSphere](#) combined with NVIDIA [AI Enterprise](#) suite on VxRail and PowerEdge.



### **NVIDIA-Certified Dell systems with NVIDIA AI Enterprise on VMware vSphere**

[NVIDIA-Certified Dell EMC systems](#), such as PowerEdge and VxRail, support advanced features for AI and data science with NVIDIA AI Enterprise on VMware vSphere, as well as professional graphics and simulation, accelerating computing for enterprises.



### **NVIDIA and PowerScale**

Designed to reduce complexity and optimize results for data-intensive AI workloads, NVIDIA AI Enterprise software and [PowerScale](#) provides the necessary analytics performance and scale to feed the most data-hungry AI algorithms.



## Get started with enterprise AI today!

Fast-track your AI projects with immediate, short-term access to NVIDIA AI through [NVIDIA LaunchPad](#)

“NVIDIA LaunchPad helps enterprises worldwide quickly determine their AI requirements on the same stack they can purchase and deploy, giving them a running start with support from NVIDIA before a single server even ships.”



“We count on PowerEdge servers to process and analyze images and other data from cameras and sensors 24x365, using our AI models to perform and improve safety inspections without halting trains.”

**David Ponevac**  
Chief Technology Officer,  
Duos Technologies



## Proven AI customer success



### UNIVERSITÀ DI PISA

The university flexes to accommodate new users and workloads with VMware and NVIDIA AI Enterprise software on Dell infrastructure.

[Read case study](#)

[Watch video](#)



### ANIMALLOGIC

Animal Logic brings animated movies to life through the power of Dell Technologies.

[Read case study](#)

[Watch video](#)

### ATLANTIS THE PALM, DUBAI

Making sure that Atlantis guests enjoy the best service possible and never wait for resort amenities required an innovative IT infrastructure solution.

[Read case study](#)

### duostech

Duos Technologies Group utilizes sophisticated AI at the edge coupled with Dell PowerEdge bservers to perform automated safety inspections without halting trains.

[Read case study](#)



The Miami Dolphins increase fan engagement and stadium security with advanced video, data storage and protection, and hyperconverged infrastructure.

[Read case study](#)

### MEDIVIS

Medivis needs the latest technologies available to harness the power of augmented reality and artificial intelligence in computer-assisted surgery.

[Read case study](#)

### digital harmonic®

Digital Harmonic is working with Dell Technologies to bring an AI-driven video and image enhancing solution to the Federal government market.

[Read case study](#)

### Taboola

Taboola relies on powerful, scalable Dell PowerEdge servers with NVIDIA GPUs to continually train AI models that make 30 billion content recommendations daily.

[Read case study](#)

# The AI-Powered Business: The Key to Future Growth

AI holds the key to accelerating digital transformation strategies through real-time data that influences decisions. AI can help you accelerate, scale, streamline or simplify work you already do, or it might offer new opportunities for your business that you have never considered doing before.

Digital transformation is the perfect use case for deploying AI, and AI accelerates digital transformation through automation. Corporate strategies must include digital transformation and AI across all areas and will gain a competitive edge from using this comprehensive approach today. Dell Technologies, VMware, and NVIDIA offer solutions to fully leveraging the power and benefits of AI. For organizations capable of integrating AI into business operations, the AI-powered business is a competitive differentiator to accelerate digital transformation, and integral to future success.

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Unlock the power of AI with Dell Technologies,  
VMware and NVIDIA

Learn more at [DellTechnologies.com/AI](https://DellTechnologies.com/AI)

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to NVIDIA AI through [NVIDIA LaunchPad](#)

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