

Top 10 Generative AI Myths Debunked

Separate fact from fiction to accelerate your enterprise AI innovation.

AI and Generative AI (GenAI) misconceptions can lead to missed opportunities for your organization. Discover how you can proactively and efficiently embrace GenAI today.

1
OF 10



MYTH

GenAI is only for tech companies.



FACT

GenAI is a transformative tool that benefits any type of industry because the use cases – such as content creation, code development, and digital twins – can be applied horizontally across all types of organizations. AI tools and applications can be customized to address specific needs and datasets, making it a truly universal technology for organizations of any size.



2
OF 10



MYTH

Success of GenAI efforts relies on the quality of AI Large Language Models.



FACT

While LLMs are certainly enabling technologies, the true success of GenAI initiatives hinges on data. High-quality data ensures AI can generate valuable insights and accurate outcomes, making data management and preparation critical components of any AI strategy. You can start with synthetic data and then add your data for improving outputs over time.



3
OF 10



MYTH

Larger language models
are always better.



FACT

Larger models can be resource-intensive and not always necessary. Tailored, smaller models can provide efficient and cost-effective solutions, especially when optimized for specific tasks and augmented with your own datasets. Find the right balance between model size, accuracy and resource requirements.



4
OF 10



MYTH

You need data scientists to be successful with GenAI.



FACT

Tools like Retrieval-Augmented Generation (RAG) have democratized access to GenAI, allowing teams to be successful without deep expertise. These tools simplify the integration of quality data with GenAI, making it accessible to a broader range of professionals.



5
OF 10



MYTH

You need to create your own models from scratch.



FACT

For most enterprises, building models from scratch isn't necessary and probably not something you should try to do. With the abundance of pre-trained models and model marketplaces, you can quickly find and fine-tune models to fit your specific needs. This accelerates your AI journey, reduces costs and enables you to focus on business outcomes.



6
OF 10



MYTH

GenAI is best hosted in the public cloud.



FACT

Focus on bringing AI to the data, wherever it resides, to ensure optimal fine tuning and inferencing with quality data inputs. Hosting GenAI on-premises, in a hybrid environment, or running inferencing at the edge can ensure greater control, performance and lower costs while addressing data privacy and maintaining compliance with data regulations.

7
OF 10



MYTH

**Implementing GenAI is
cost prohibitive.**



FACT

It's important to understand the TCO and expected ROI to achieve your GenAI outcomes. In reality, it doesn't always require massive infrastructure or staffing investments.

Organizations can tailor their IT to fit specific use cases with smaller models running on PCs to more complex solutions on larger-scale infrastructure. Thoughtful sizing can make GenAI accessible and more cost-efficient, while also being mindful of sustainability.

8
OF 10



MYTH

GenAI understands
context just like humans.



FACT

While GenAI can process and generate information efficiently, it lacks the emotional intelligence and deep contextual understanding inherent to humans. Even with agentic AI, human oversight is crucial in guiding and refining content produced by AI, ensuring it aligns with nuanced human perspectives.

9
OF 10



MYTH

GenAI security is only about data privacy.



FACT

Security for GenAI involves more than only data privacy. Organizations must develop a strategy to protect the AI models themselves from attacks, ensure compliance with regulations, and maintain control over their inputs and outputs.



10
OF 10



MYTH

IT teams are responsible for making GenAI successful.



FACT

GenAI success requires a collaborative effort across business leaders and a broad set of domain experts to align initiatives with strategic goals. While IT is clearly a key enabler, IT teams must collaborate with various organizational stakeholders and end-users to define desired outcomes, align on use cases, drive adoption and measure ROI.



Stay competitive and embrace GenAI

With the knowledge gained from these debunked myths, you can be more prepared to help your organization unlock the full potential of enterprise AI.

Explore Dell Technologies resources or contact our team to learn how you can harness the Dell AI Factory with NVIDIA® to take the next step in your AI journey.

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