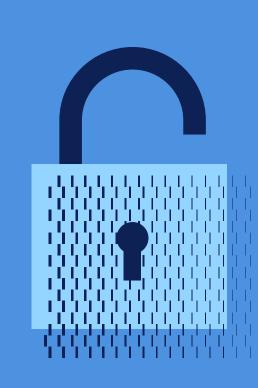


Dell Generative Al Solutions with NVIDIA

Deliver more accurate and reliable outputs for Generative Al workloads



Generation (RAG) with NVIDIA Microservices

A scalable architecture for Retrieval-Augmented

Out-of-the-box use of Large Language Models (LLMs) offer limited value since

End users expect accurate and true answers from your GenAl implementations.

- they were trained on publicly available data · A main challenge is when a model makes a wrong guess, called a hallucination
- To maximize the value of pre-trained language models, they need to be combined



and trained on your own data.

frameworks for GenAl models

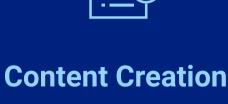


answers



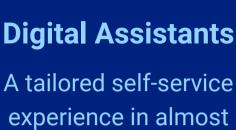
a retrieval-based approach

Leverage the potential of GenAI for key use cases



Across marketing, sales,

back-office operations, and more



any language

Improve accuracy and reliability of your GenAl models by using your own data for

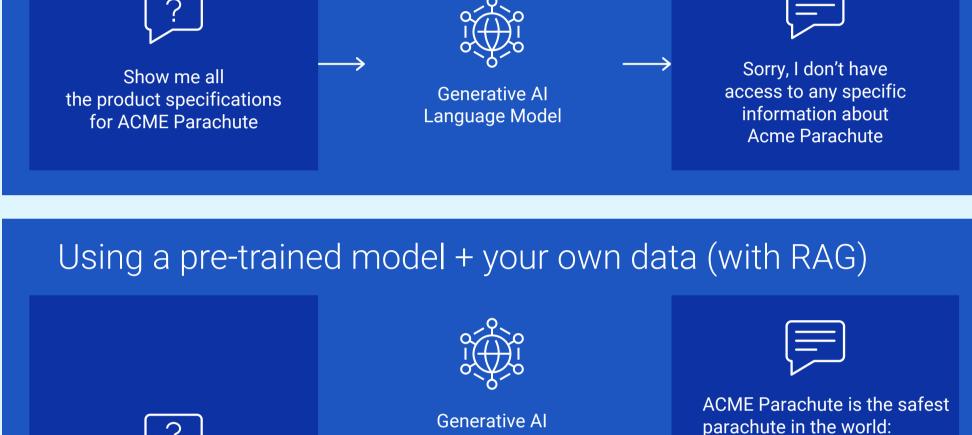


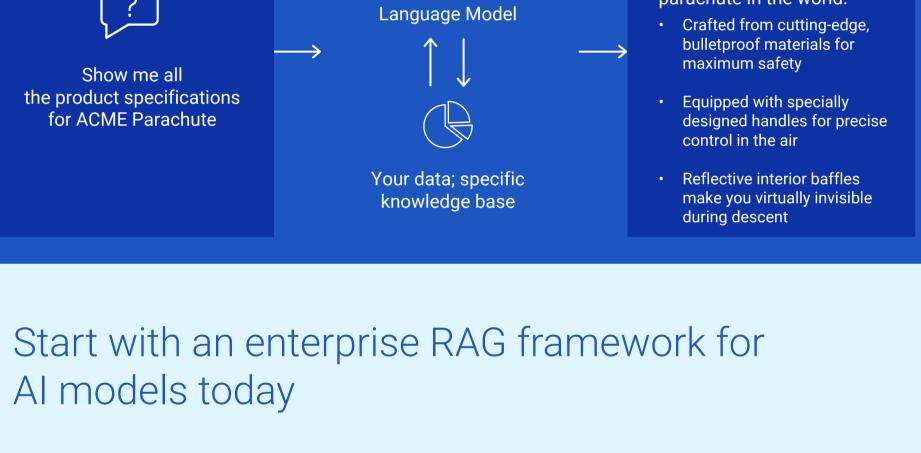
initial code drafts for example

contextual retrieval. Build trust by enabling end users to check any claims against a referenceable source (like footnotes in a research paper).

Why use a retrieval-based approach?

Using only a pre-trained model





Get up and running quickly with joint architecture from Dell Technologies and NVIDIA

that reduces risk by helping you avoid design, planning, and adoption pitfalls.

Over 340k engineering hours spent on design, development and validation on GenAl solutions¹ **GenAl Frameworks and Services**



NVIDIA Triton

Inference Server

NVIDIA NeMo RAG

Microservices



Enterprise

Linux

Embedding Microservice

+ Vector Database

Community

Source Models

Infrastucture Management **PowerScale**

Kubernetes CSI Driver

AI Optimized Platforms and Libraries

NVIDIA

RAPIDS RAFT

PowerEdge + NVIDIA GPUs

Kubernetes

Infrastructure

The world's broadest GenAI infrastructure portfolio that spans from cloud to client devices, all in one place2

PowerScale

PowerSwitch

Deliver outcomes faster with

Dell Professional Services

Dell experts are here to assist you at every

stage of your GenAl journey:

Build your roadmap to achieve the innovation

objectives of your IT and

Strategize

business stakeholders software

Prepare your data and

Implement

selected platform, everaging documented and engineering-validated designs to implement the required hardware and

With your unique use

experts deploy and configure infrastructure to meet your needs

Adopt

cases in mind, Dell

Manage your innovation

portfolio with resident

technical experts and

the GenAl skills of

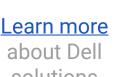
training offers to develop

Scale

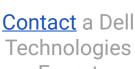
vour team

Dell Technologies and NVIDIA

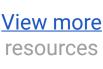
Dell Technologies and NVIDIA work together to enable and accelerate Generative AI adoption, deliver engineering-validated hardware and software to accelerate AI, ML and DL workloads to meet customer needs across all businesses and verticals. With Dell Technologies and NVIDIA, you can deploy AI solutions to accelerate your digital transformation through real-time data that improves key decision-making, with solutions optimized for fastest time to value from your Al initiatives.



solutions



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Join the conversation with #PowerEdge



¹ Based on internal analysis, October 2023

² Based on Dell analysis, August 2023. 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.