

Delivering digital agents and other GenAI solutions

Zetaris builds a flexible and scalable AI hub for developing and running its customers' GenAI solutions using the Dell AI Factory with NVIDIA.

Customer



Industry

Information technology

Location

Palo Alto, California

Business needs

Zetaris wanted to make it easy for organizations to adopt Generative AI (GenAI) solutions such as role-based digital agents that could be consumed as-a-Service or run on premises. Every deployment would need to meet individual customer requirements for data accuracy, governance and performance – regardless of their industry and use cases.

Solution created

Zetaris built a configurable and scalable AI hub that includes Large Language Models (LLMs), a point-and-click Retrieval Augmented Generation (RAG) development framework, hardware and other services so it can design and deploy customers' configurable GenAI solutions such as role-based digital agents.

Business results



Ensures fast, reliable AI experiences at the edge for customers.



Accelerates AI and GenAI development and adoption.



Minimizes costs and risk.

Supporting technologies

- [Dell AI Factory with NVIDIA](#)
- [Dell Pro Max PCs* with NVIDIA RTX™ GPUs](#)
- [NVIDIA RTX technology](#)
- [Dell Professional Services](#)
- Dell ProSupport

Zetaris is on a mission to equip organizations across industries, including hospitals, with AI-powered tools that instantly connect people with essential information on demand. To achieve its vision, Zetaris wanted to build an AI development platform that could expedite the design and deployment of solutions, including governed data platforms and personalized role-based digital humans running on premises or in the cloud.

After evaluating partner options, Zetaris says Dell Technologies was the obvious choice. The Dell AI Factory with NVIDIA solution portfolio enables full stack GenAI solutions. The offering's building blocks include Dell Pro Max PCs* featuring the latest NVIDIA RTX PRO GPUs and NVIDIA AI software and models — as well as Dell's software and global enterprise services.

"We really like the direction that Dell Technologies is taking in bringing desperately needed AI capabilities to market with the Dell AI Factory with NVIDIA," says Vinay Samuel, CEO and founder of Zetaris. "It's a critical enabler for what we're trying to do."



faster
development
of a governed
medical research
data platform
compared
with traditional
approaches

Developing a flexible and scalable AI hub

To accelerate the development and deployment of customers' AI and GenAI solutions, Zetaris built an AI hub for use by its own teams as well as its customers. The AI hub runs on Dell Technologies hardware featuring the NVIDIA AI platform with NVIDIA RTX GPUs. The hub's software includes Dell Technologies services, software — including NVIDIA Audio2Face (A2F), RAPIDS Accelerator for Apache Spark and RAPIDS cuDF — and custom services developed by Zetaris using Dell Pro Max PCs with NVIDIA RTX GPUs. The custom services include a point-and-click tool for creating a governed data management platform. The tool automates processes that connect source systems, catalog data, and apply customers' business language and rules to the data to ensure one governed source of truth for AI applications. Developers also created a customizable AI-powered digital human called "GenZ" that can include a digital human interface built with software from third-party Uneeq.

To support customers' digital human deployments, Zetaris developed a variety of Large Language Models (LLMs) tuned for specific industries and use cases such as early disease detection for healthcare practitioners. To increase LLM — and GenAI — accuracy for every customer, Zetaris also built an out-of-the-box Retrieval Augmented Generation (RAG) framework that provides point-and-click tools for creating RAG applications that deliver customer-specific information to their LLMs.

Organizations can consume their Zetaris solutions as-a-Service — or as a turnkey on-premises solution running on Dell Pro Max PCs and scaling to other Dell Technologies infrastructure backed by Dell ProSupport. "By partnering with Dell Technologies, we've been able to develop an AI technology workbench for anyone trying to build AI capabilities," says Samuel.

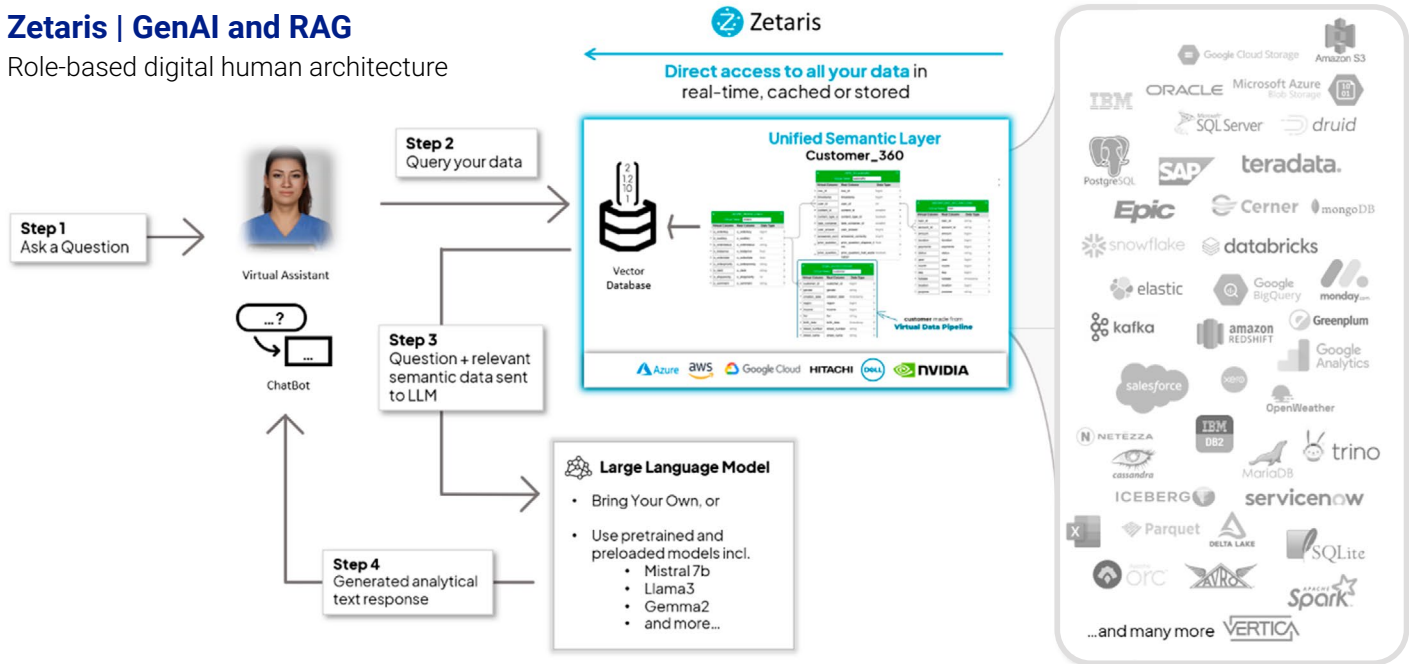
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Zetaris | GenAI and RAG

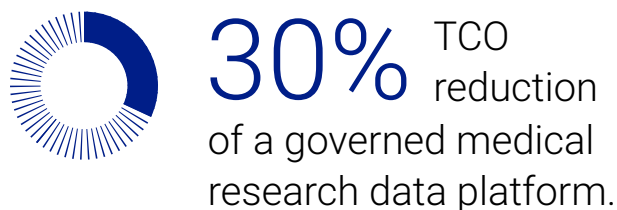
Role-based digital human architecture



A GenZ digital human running on a Dell Technologies platform

Simplifying AI adoption and minimizing risk

With its AI hub, Zetaris developers can quickly create custom GenAI solutions. Customers can also use the hub to accelerate AI adoption and rightsize their solutions to minimize costs and risk. "By delivering solutions on Dell Pro Max PCs, we enable our customers to start their AI journeys with a small investment that they can clearly align with value on day one," says Samuel. "As they get more sophisticated with their AI use cases, they can choose to implement servers and storage from Dell Technologies so they get a complete solution with holistic management tools and one familiar point of contact for support."



USE CASE

A governed data platform for thousands of medical researchers

A children's medical research institute recently engaged Zetaris for a solution that can provide thousands of collaborators, including external parties, with fast governed access to thousands of data sources. By using its own AI hub and Dell Pro Max PCs, Zetaris was able to develop a unified data platform for the institute six times faster than it could using traditional data warehouse development approaches. And with its centralized Zetaris solution, the institute has reduced its total cost of ownership (TCO) by 30% compared with its previous data strategy.

The institute is now working with Zetaris to expand its unified data platform to equip medical researchers, healthcare policymakers and community leaders with insights to better understand, treat and prevent health problems. The supporting information includes governed, lifelong medical records from 115,000 study participants as well as public medical research, satellite maps and environmental data like air and water quality.

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Vinay Samuel

CEO and Founder, Zetaris

USE CASE

Digital agent for ER personnel

A large healthcare provider collaborated with services teams from Zetaris and Dell Technologies to implement a role-based digital agent — in just one month. The solution runs on Dell Pro Max PCs configured with NVIDIA RTX GPUs and uses NVIDIA A2F software for the agent’s avatar. Emergency room personnel use the turnkey solution to triage patients with chest pain. By instantly analyzing governed data sources, the digital human agent provides risk scores and other insights that help teams make decisions about prioritizing and routing patients for care.

“If you’re a hospital that wants to equip nurses with AI to help triage patients at the same speed that a human can, you better make sure you can place the appropriate data for that conversation at the right place,” says Samuel. “Dell Pro Max PCs enable us to do that — and so much more. By partnering with Dell Technologies, we get the reliable, high-performance solutions that can run our AI solutions at the edge as well as in data centers so our customers can make better use of their data to drive innovation across industries.”

Delivering fast, modern AI experiences at the edge

Organizations that need to always ensure fast, reliable GenAI performance and keep sensitive data behind their firewalls opt to use the turnkey, edge-based GenAI solutions from Zetaris because they minimize issues from network latency. “To create edge AI experiences that mimic human experiences, you need to beat physics,” says Samuel. “You need to have the data close to the experience. And so part of the Zetaris solution is about placing data across customers’ networks to support their use cases. Dell Pro Max PCs with NVIDIA RTX™ Ada Generation GPUs provide the right architecture, form factor and performance for AI inferencing and development happening at the edge.”



One month to deliver a role-based digital agent that helps triage ER patients.

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DELLTechnologies



*Dell Pro Max PCs, previously known as Dell Precision workstations.

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