## Driving business value from GenAl

Overcome complexity, risk, and expense to increase ROI and deliver on AI expectations





**Case Study Profile** Healthcare

#### Industry challenge

Healthcare faces high demand, long wait times, and heavy administrative burdens, limiting care quality. Innovative solutions are urgently needed to streamline workflows, enhance diagnostics, and improve patient outcomes effectively.

**Solution Architecture** 

Multimodal AI improves healthcare service quality and patient outcomes



### Efficient care coordination



Seamless documentation

Accurate diagnostics

Vision-language models analyze medical imagery precisely and efficiently, speeding up accurate diagnoses and improving patient outcomes

Retrieval-augmented generation (RAG) streamlines patient summaries, giving healthcare professionals quick, relevant insights for timely and informed decisions

Audio session transcription automates real-time clinical notes, freeing providers to focus on patients and ensuring up-to-date, accurate healthcare records

# Dell AI Factory results

Dell Technologies and AMD help organizations achieve:

Up to

Compared to public cloud while maintaining high-quality performance and data privacy

Faster adoption<sup>2</sup> up to 86%

Reduce implementation time by

#### Scalable networking

Enhanced scalability supports higher workloads efficiently

### Validated configurations

Pre-tested setups simplify deployment and optimize performance

### Simple AI integration

Streamlined solutions ease Al adoption for enterprises

**Greater efficiency** 

Streamlined workflows and reduced administrative burdens enhance efficiency and patient care

Dell Technologies offers complete generative AI services—strategy, implementation, scaling, and management—empowering businesses with expert solutions for AI success.

## Turn GenAl POC into ROI with Dell Technologies and AMD

Dive deeper into this case study

<sup>1</sup> Based on Enterprise Strategy Group research commissioned by Dell, comparing on-premises Dell infrastructure versus native public cloud infrastructure as a service, April 2024. Analyzed models show a 7B parameter LLM leveraging RAG for an organization of 5k users being up to 38% more cost effective while a 70B parameter LLM leveraging RAG for an organization of 50k users being up to 75%

more cost effective. Actual results may vary. Economic Summary.

2 Estimate based on Dell analysis in May 2024 comparing time to setup a 2-node Kubernetes cluster for a general-purpose LLM using automated scripts vs deploying a common design manually. Setup