

Accelerate Enterprise AI with the Right Dataset

Connect data, models, and humans across the AI lifecycle with Dell Data Orchestration Engine

Key outcomes

Built for the full enterprise AI team

- Accelerate pilot-to-production timelines for enterprise AI initiatives
- Improve retrieval accuracy and response quality across multimodal data
- Reduce operational overhead through unified AI workflow automation
- Enable consistent AI execution across hybrid and distributed environments

Common AI Use Cases Enabled

- Enterprise Knowledge Assistants and RAG applications
- Predictive maintenance and operational intelligence
- Multimodal search and content discovery
- AI copilots and domain-specific agents

Executive summary

As enterprises adopt AI and agentic systems, delivering the right data context at the right time has become mission critical. Many organizations struggle with siloed and distributed unstructured data, making it difficult for AI systems to consistently locate, access, and ground the right enterprise context across hybrid environments.

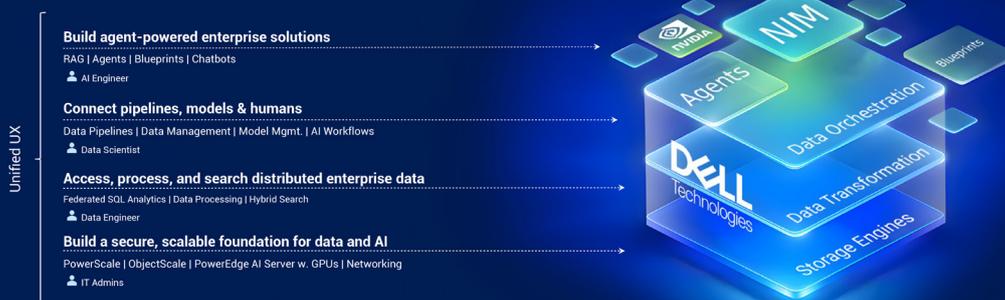
Dell Data Orchestration Engine addresses these challenges by unifying dataset curation, pipeline orchestration, and AI workflow automation into a single enterprise-ready intelligence layer. Integrated within the Dell AI Data Platform, it enables organizations to operationalize retrieval-augmented generation (RAG), multimodal assistants, and autonomous agents with confidence - while supporting continuous evaluation, production-scale governance, and ongoing model and data improvement.

Dell Data Orchestration Engine

The Dell Data Orchestration Engine serves as the intelligence layer for enterprise AI operations. It connects data pipelines, model workflows, and human feedback loops to ensure AI systems continuously improve with governed, high-quality data. Unlike fragmented point tools, the engine delivers end-to-end orchestration across ingestion, enrichment, retrieval, and inference workflows—helping organizations move from experimentation to production-scale AI.

- Multimodal data management across documents, images, video, audio, and sensor data
- End-to-end pipeline orchestration from ingestion through retrieval and deployment
- Hybrid-native execution across on-premises and cloud environments
- Integrated evaluation and feedback loops to continuously improve AI context

Integrated Stack



Architecture overview

The Dell Data Orchestration Engine operates within the Dell AI Data Platform to unify applications, data services, and infrastructure into a cohesive AI-ready foundation. Built on The Dell AI Data Platform provides the scalable data foundation required for modern AI workloads. By combining high-performance storage, open data engines, and unified orchestration, the platform ensures data is accessible, governed, and optimized for GPU-accelerated AI pipelines.

Extension to Dell AI Factory

For organizations pursuing full-stack AI transformation, the Dell AI Data Platform and Data Orchestration Engine extend naturally into Dell AI Factory deployments, enabling validated infrastructure patterns and accelerated time to production for enterprise AI initiatives.

Ecosystem alignment

The platform integrates with leading AI ecosystems, including NVIDIA AI software and accelerated computing, helping enterprises streamline model deployment and maximize infrastructure efficiency while maintaining architectural flexibility.

Power enterprise AI with confidence

Enterprise AI success depends on trusted data, reliable workflows, and scalable infrastructure. Dell Data Orchestration Engine—together with the Dell AI Data Platform—provides the foundation to operationalize AI with the right dataset, the right context, and the right performance at scale.

Data Engineers <ul style="list-style-type: none">Orchestrate pipelines across hybrid environmentsAutomate ingestion, transformation, and retrieval workflowsEnsure reliable, scalable data movement to GPU pipelines	Data Scientists <ul style="list-style-type: none">Curate high-quality multimodal datasets fasterImprove RAG grounding and model accuracyAccelerate experimentation with governed data access
AI and Software Engineers <ul style="list-style-type: none">Integrate AI workflows into applications and agentsOperationalize models using reusable pipelines and APIsDeploy AI services consistently across environments	Data and Platform Leaders <ul style="list-style-type: none">Enforce governance, lineage, and lifecycle controlsStandardize AI data operations across the enterpriseReduce risk while scaling AI adoption

Retrieval-Augmented Generation (RAG): Ground copilots and assistants with enterprise knowledge while continuously refreshing context.

Agentic AI workflows: Power autonomous agents with governed data and coordinated multi-step reasoning.

Multimodal data intelligence: Unify documents, images, video, and sensor data into high-quality datasets for AI applications.



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