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The Hammerspace AI Data Platform

A Turnkey Solution for Real-Time AI Intelligence

SOLUTION BRIEF

The Critical Barrier: Timely Delivery of AI-Ready Data

Over the past year, the attention of the AI market has moved from extreme scale training AI to using AI to drive genuine business benefits though inference, retrieval-augment generation (RAG), and agentic AI in an enterprise context. This shift has increased pressure on access, management, and governance of multimodal enterprise data.

The enterprise AI market is moving from experimentation to production — and with it, the tolerance for cobbling together disconnected AI tools is declining. Organizations now demand solutions that deliver meaningful outcomes.

For most enterprises, data fragmentation is no longer a technical inconvenience; it is an urgent threat. Transforming distributed, raw, multimodal data into AI-ready data has become the primary barrier to AI success, and traditional infrastructure is unable to deliver the necessary outcomes.

The root cause is structural. Enterprise environments today require 15 or more tools stitched across the distributed storage estate just to prepare data for AI consumption — a complexity that carries a significant cost: 80% of AI project spend is made before a single dollar of ROI is realized.

Successful AI projects require more than optimization at the margins. Organizations must look beyond the toolkit model entirely and adopt a unified approach to storage and data management — one purpose-built for real-time inference and the demands of modern AI factories.

The Hammerspace AI Data Platform Overview

The Hammerspace AI Data Platform (AIDP) is the definitive architectural response to the need for a converged storage and data preparation solution. While traditional architectures require organizations to purchase massive amounts of new, expensive flash storage and migrate their data there, Hammerspace utilizes a "data-in-place" philosophy. This allows enterprises to maximize their existing capital investments in heterogeneous storage while accelerating high-demand AI workloads across on-premises and cloud-based environments.

Hammerspace AIDP delivers the fastest access to AI outcomes in the industry. By unifying storage infrastructure and automating data transformation, AIDP allows organizations to bridge the gap between legacy data silos and real-time AI applications.

Architectural Core: Data Activation and Global Orchestration

The foundation of a successful continuous AI data pipeline is a global namespace. This is not merely a file system; it is the strategic layer that unifies data across systems, locations, and clouds, eliminating data gravity and feeding AI applications at full speed, no matter their location. This combination is what allows you to fully utilize your existing infrastructure and avoid expensive and complex data migrations to new AI storage systems.

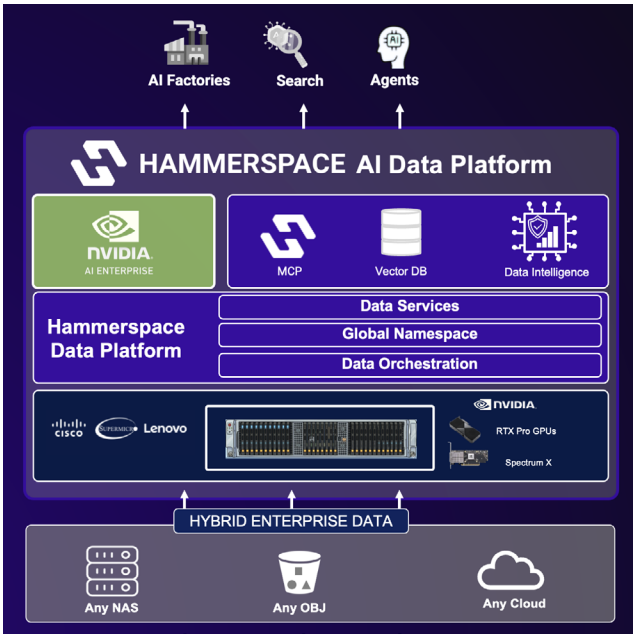
The platform executes three critical principles:

Unify: Leveraging "data-in-place" assimilation, the platform gains an immediate central view into existing storage infrastructure without moving a single byte. This maintains data sovereignty and eliminates the risk of distributed data copy proliferation.

Automate: Using automated pipelines within the Global Namespace, AIDP orchestrates the data transformation process by identifying relevant new and existing data, moving selected data sets, and transforming them into an AI-ready format. This pipeline is fully instrumented, governed and secure for total control and further pipeline optimization.

Accelerate: Get the AI-ready data where it needs to be, when it needs to be there. On-premises GPU clusters or cloud-based resources are both fed with the highest performance and lowest latency of continuous data.

The end-to-end pipeline automation is achieved by combining the key features of the Hammerspace Data Platform with NVIDIA AI Enterprise software, an MCP server, and a Vector database. Using the software tools and libraries from NVIDIA, the Hammerspace AIDP solution takes raw unstructured data and performs all the steps from gathering and curation through to inference and serving models.



While the solution automates all the steps of the end-to-end pipeline, it is not a black box. Every step can be queried and analyzed to determine areas of further optimization and integrated via APIs to popular tools for visibility and more elaborate security regimes.

The entire solution comes fully configured with hardware. The complete solution, powered by NVIDIA's RTX Pro GPUs and accelerated networking, eliminates the risk and delay around scope, design and deployment is eliminated by a scalable design which allows customers to start small and scale enterprise wide.

Buy Outcomes, Not Toolkits

In high-stakes deployments, simplicity is the ultimate form of resource optimization. The Hammerspace AIDP solution reduces the complication of an end-to-end data pipeline into a single optimized outcome: a continuous source of reliable AI-ready data. By purchasing an integrated outcome, the time to the very first token, the ultimate KPI for AI readiness, is significantly reduced, allowing for faster realization of ROI.

Unifying data within a single namespace and automating end-to-end pipelines removes the burden of manual tagging, labeling, and data movement from data scientists. Additionally, intelligence about the data is integrated to mitigate compliance and governance risks, maintain sovereignty, and control of organizational data.

The design is tailored for "project-based beginnings." Organizations can start small for a specific AI initiative and scale with the demands of the business, utilizing existing heterogeneous storage rather than over-investing in speculative capacity.

The Instant Leap Forward

The Hammerspace AI Data Platform is a friction-less path for organizations struggling with the dilemma of where to host AI, which tools to utilize, and how to secure their intellectual property. It is the only turnkey solution that bridges the massive gap between existing capital investments and future-ready AI capabilities.

By delivering the fastest access to AI-ready data, Hammerspace enables enterprises to move beyond the limitations of oversubscribed resources and the AI talent gap. Hammerspace transforms the data pipeline from a series of disconnected hurdles into a unified, real-time engine—delivering the intelligence today's enterprise requires to succeed in the era of operational AI.