Artificial Intelligence (AI) and Machine Learning (ML)

Research | Monitoring | Automation | Database Development Business Intelligence | Reporting | Object Storage Platform

DATASHEET

Analytics Tools for AI/ML Driven Solutions

To address the emerging needs in the areas of AI & ML driven solutions for evidence-based tactical and strategic decision making, there is a proven need for Tools, Collection, Research, Monitoring, Automation, Database Development, Data, & Reporting that lets the analysts focus on the problem instead of searching and manipulating data, HVF offers a suite of big data and analytics products, coupled with our #1 rated object storage platform, Hitachi Content Platform (HCP) for metadata management. The suite of products and services to bring innovation to your organization's data-driven initiatives are:

- Lumada Data Catalog (LDC) is a data self-service platform. It utilizes machine learning to perform automatic discovery and tagging of data, including semantic inference, and can refine tags based off analyst feedback then use the same feedback to refine future tagging suggestions.

- Hitachi Content Intelligence (HCI) can tie into existing structured and unstructured data sources and perform transformations to enhance the search-ability and compliance of the data.

- Pentaho enables organizations to access, prepare, and analyze all data from any source, in any environment, between data managers and consumers.

- Hitachi Content Platform (HCP) is an object storage solution designed to store, share, sync, protect, preserve, analyze, and retrieve file data from various source systems. HCP offers mobile access, archiving, backup, custom metadata, and easy scaling.

- Hitachi Professional Services (PS) provide organizations with dedicated expertise around big data ingestion and analysis and Hitachi analytic products. Our experts are dedicated to working with our clients to further their vision and mission by understanding their data environment. We develop next-generation strategies, plans, policies, and implementation frameworks.

This solution reduces the time it typically takes to process captured data by accelerating metadata discovery and categorizing data and thus, allows data scientists, analysts, and users to entirely focus on their data-centric problem statement. It permits data curators and stewards conveniently manage sensitive data. It also enables IT administrators to identify and eliminate unintended redundant data.

Data-Driven, Mission Partner

Hitachi Vantara Federal (HVF) is a mission partner that elevates the end-user's innovation advantage by combining deep information technology (IT), operational technology (OT), and domain expertise. Government customers across the Department of Defense (DoD), Intelligence communities, and civilian sector, rely on HVF to keep their missions running and their critical data safe.

HVF is a data-driven company. Storing, processing, and analyzing data is inherent in everything we do.

Hitachi is also at the cutting edge of data analytics, using artificial intelligence (AI) and machine learning (ML) and integrating these technologies throughout our broad corporate product portfolio.
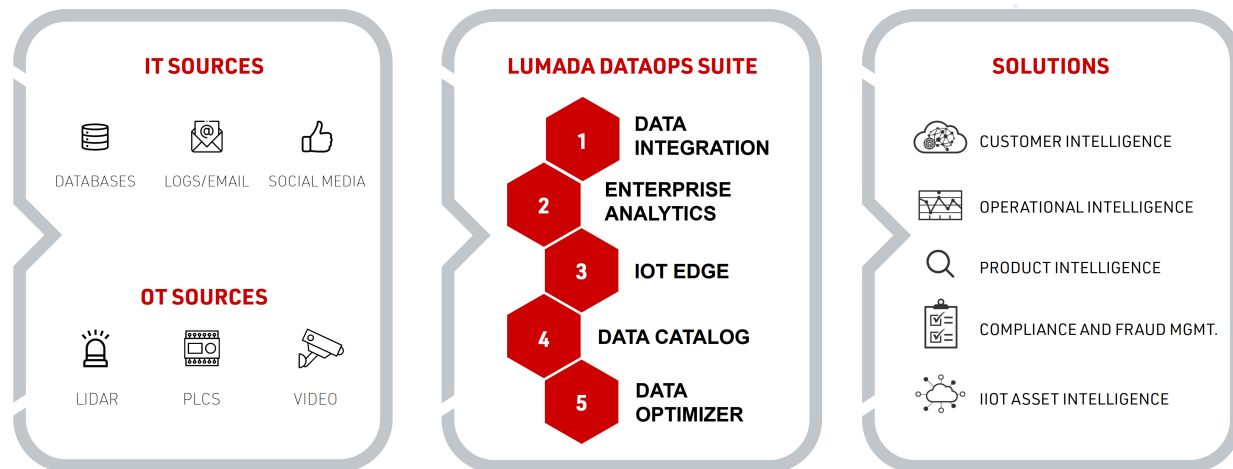
Figure 1. **Raw Data is Ingested into the System and Enhanced with AI/ML for Optimized Analytics**

- **Has the power to access, prepare and blend all data** – The data integration engine delivers accurate, "analytics ready" data to end users from any data source, including geo-tagged data. Visual drag-and-drop low-code tools eliminate coding and complexity, putting big data and traditional data sources at the fingertips of analysts.

- **Enables native integration to all big data sources** – Regardless of data source, analytics requirements, or deployment environment, the Hitachi solution creates "future-proofed" access to disparate data silos.

- **Is easy to embed** – The platform uses a multi-tenant architecture, making it flexible and easy to embed analytics into any website, workflow application or deployment model, including Cloud, on-premise, mobile and hybrid models. Our open system architecture easily integrates into many other existing systems and products.

- **Establishes a unified comprehensive data store** – Simplifies preparing and blending all data types and provides a broad spectrum of self-service analytics including dashboards, reports, data visualization, discovery, and predictive analytics.

- **Provides Governed data delivery** – The ability to blend trusted and timely data to power analytics at scale for all users in all environments.

- **Provides object storage** – Object storage can significantly enhance data management and governance while drastically lowering storage costs. HCP is not only a modern object store but also a data management platform to enrich data with the context necessary to secure, protect, control, and analyze it.

We welcome the opportunity to explore how these products can build a big data system capable of ingesting data sets and provide the associated performant analytic tools that will support mission execution.

Hitachi Vantara Federal

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