



NVIDIA + Kinetica

Unparalleled performance with breakthrough speed of results

- Kinetica's insight engine accelerates NVIDIA's advanced parallel computing technology to enable unprecedented performance
- Under the hood, our insight engine takes advantage of vector and matrix processing for complex data computation on large datasets, making data preparation through distributed ingestion and extraction significantly faster

Exceptional visual insights with interactive location-based analytics

- Kinetica's 'Reveal'—a built-in interactive visual discovery tool—enables deep analysis on temporal and geospatial data
- Kinetica leverages NVIDIA's GPUs for in-memory distributed image processing and rendering, delivering an exceptional visual analysis experience

Streamlined machine learning using market-leading GPUs

- Seamlessly integrate pre-existing models and open source libraries and tools (such as TensorFlow, Caffe, Torch, Fuzzy Logix, DeepChem, H2O, and Continuum) into workflows with Kinetica's highly-scalable technology
- Simultaneously process and manage BI/AI workloads and use cases using a single engine with data and compute co-located

Enterprise-grade insight engine that powers business in motion

- An in-memory GPU architecture with advanced GPU abstraction technology—along with simplified administration—deploys on industry-standard hardware and scales linearly for businesses that need to adapt to constant change
- Seamless integration with industry-standard connectors to data sources and apps enables deployment of Kinetica in existing technology ecosystems

Insight Engine for the Extreme Data Economy

Businesses need to effectively analyze, visualize, and turn data into insights and use AI-driven knowledge to transform their digital business into an AI enterprise. Today's businesses must unleash the power of accelerated analytics to transform their data-driven businesses. When extreme data requires companies to act with unprecedented agility, Kinetica powers business in motion.

Kinetica's instant insight engine on NVIDIA DGX-1 and NVIDIA GPUs provides real-time analytics on data—in motion and at rest—10 to 100X faster than traditional systems, and at 1/10th of the cost.

Together, NVIDIA and Kinetica deliver breakthrough performance, exceptional visual insights, and streamlined machine learning to meet the constantly changing demands in the Extreme Data Economy. Kinetica's capabilities, including built-in machine and deep learning, enable businesses to deliver AI and BI use cases accelerated by NVIDIA GPUs on a single engine.

NVIDIA GPU-accelerated analytics and interactive visualization solutions provide deeper insights, enable dynamic correlation, and deliver predictive outcomes at superhuman speed, accuracy, and scale.

GPU Cloud - Accelerated Innovation for Deep Learning and High-Performance Computing

NVIDIA GPU Cloud (NGC) is a GPU-accelerated cloud platform optimized for deep learning and high-performance computing by managing a catalog of fully integrated and optimized containers that take full advantage of NVIDIA GPUs on-premises or in the cloud. NGC provides researchers and data scientists with simple access to a comprehensive catalog of GPU-optimized software tools for deep learning and high-performance computing (HPC) that take full advantage of NVIDIA GPUs.

KINETICA INSIGHT ENGINE FOR THE EXTREME DATA ECONOMY



The Kinetica Advantage

Kinetica is built on five pillars of success.

Unparalleled Speed

Dramatically accelerate analysis with advanced parallel computing

- In-memory GPU architecture with advanced GPU abstraction technology
- SQL queries to process and analyze billions of rows in microseconds
- Simpler data preparation through distributed ingestion and extraction without the need to index

Streaming Data Analysis

Ingest and process data at the same time to get instant results

- Run SQL queries on streaming and geospatial data
- Continuously collect, analyze, and integrate streaming data with historical data
- All-in-one solution to ingest, compute, visualize, and egress data

Visual Foresight

Instantly translate temporal, geospatial, and streaming data into visuals that reveal patterns and opportunities

- In-memory, distributed image processing and rendering
- Interactive visual discovery optimized for temporal and geospatial analysis
- Integrated visual dashboard

Streamlined Machine Learning

Train models faster and predict more accurately with integrated machine learning workflows

- Seamlessly integrate pre-existing code with highly-scalable solution
- Simultaneously process & manage BI and AI workloads
- Integrate workflows with open source machine learning libraries

Best-in-Class Innovation Ecosystem

Kinetica partners with leaders in every category to deliver continuous cutting-edge innovation

- Innovate with leaders in GPUs, hardware, cloud, machine learning, and visualization
- Integrate into most data infrastructures
- Deploy on industry-standard hardware and scale linearly

Recommended Hardware



NVIDIA GPU processors can be used on industry-standard servers including those from IBM, Dell, HPE, and Cisco.



For more information on Kinetica and its insight engine, visit [kinetica.com](https://www.kinetica.com)

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