

InsightEngine

Unlocking Real-Time Video Insights

NEW

VAST

InsightEngine

Managing vast volumes of video data presents a major challenge. VAST InsightEngine enables real-time video search and summarization, transforming raw footage into actionable insights with speed and accuracy. Leveraging NVIDIA Inference Microservices (NIMs), VAST Insight Engine makes it possible to access, understand, and monetize video with speed and precision.

Real-Time Video Analytics

The VAST Video Search and Augmentation solution is a customizable framework built on VAST InsightEngine, leveraging NVIDIA Inference Microservices (NIMs) for video search and summarization. It enables enterprises to process and analyze video content with speed and accuracy using Vision Language Models (VLMs) and Large Language Models (LLMs). These AI models interpret visual data, generate summaries, and support real-time queries. Ideal for industries and use cases needing instant insights—such as media and content production, training and e-learning, and, security and surveillance—it transforms raw footage into actionable intelligence.

Example Use Cases:

Corp Meetings & Town Halls

Instantly find key executive statements or discussions across company-wide video archives.

Training & E-Learning

Enable employees to retrieve specific training video content and tutorials.

Media & Content Production

Speed up content curation and archive management for production teams.

Security & Surveillance

Quickly locate relevant video evidence by searching for spoken phrases, objects, or detected events.

End-to-End AI Security & Governance with an Integrated DataBase and DataStore

VAST uniquely preserves access control throughout the entire process by seamlessly integrating file system permissions with vector search capabilities. Because only VAST combines a datastore and a database in a single platform, it ensures that users can only retrieve and interact with vectors derived from data they are explicitly authorized to access—something no other solution can do. This real-time enforcement of identity-based policies maintains strict security and compliance, allowing organizations to confidently leverage AI and analytics without compromising data privacy or governance.

Why VAST?



Unified Data Management

Consolidate structured and unstructured data and all analytics workloads for seamless access and faster insights.



Scalability

Easily scale to exabyte-level datasets with high performance as data grows.



AI-Ready Infrastructure

Enable AI-driven workflows and real-time data analysis with integrated GPU-accelerated I/O.



Security and Compliance

Ensure compliance with AES-256 encryption, tenant-managed keys, and strong data security measures.



Collaboration

Support secure, multi-institution collaboration with a global namespace shared across locations.



Integrated AI Workflows

Streamline AI deployment with pre-packaged workflows and seamless integration of storage, compute, and AI pipelines.

Scalable and Secure AI-Driven Solutions

Designed to handle exabyte-scale datasets on VAST's Disaggregated Shared Everything (DASE) architecture, VAST InsightEngine ensures that as your video data grows, performance remains consistently high. The platform's unified architecture consolidates structured and unstructured data, streamlining analytics workflows and reducing operational complexity.

Simple AI Deployment for Video Content

Deploying AI solutions for video analysis has traditionally been complex and resource-intensive. VAST InsightEngine simplifies this process by providing a fully integrated platform that combines storage, compute, and AI pipelines. Leveraging NVIDIA's NIM microservices, the platform automates inference processes, enabling real-time data embedding and retrieval without manual intervention. This streamlined approach accelerates time-to-insight, allowing businesses to make informed decisions based on the most current video data available. ensures that newly ingested videos are immediately available for search and analysis, streamlining workflows and improving operational efficiency.

Content Indexing and Retrieval

VAST InsightEngine offers advanced content indexing and retrieval capabilities for extensive video archives, enabling rapid and precise searches within massive repositories. By transforming raw footage into structured, searchable data, organizations can efficiently manage and utilize their video assets. This facilitates quick access to relevant content, supports informed decision-making processes, and enhances the overall value derived from video resources. The platform's real-time processing ensures that newly ingested videos are immediately available for search and analysis, streamlining workflows and improving operational efficiency.

About VAST Insight Engine

VAST InsightEngine transforms unstructured video data into real-time AI-driven initiatives. It instantly generates AI-ready vector embeddings and automates complex AI data pipelines, managing exabyte-scale workloads without performance loss. A unified security model enforces fine-grained access controls across raw and vector data, securing every stage of the AI pipeline. Built for secure, scalable AI infrastructure, VAST InsightEngine helps enterprises access, understand, and monetize all video with speed and precision.

Trusted by Industry Leaders

PIXAR

FOX



lola | VFX



ingenuity

Key Benefits



Find Any Video Moment Instantly

No more scrubbing through long videos—search directly for relevant content.



AI-Powered Transcription & Visual Analysis

Enhances discoverability by making both spoken words and on-screen visuals searchable.



Real-Time Retrieval

Newly uploaded videos are immediately available for AI-powered search.



Secure, Role-Based Access

Ensures only authorized personnel can search and retrieve specific video segments.

About VAST Data

VAST Data is the leading data platform software company bringing businesses into the AI era. By accelerating time-to-insight for workload intensive applications, the VAST Data Platform delivers scalable performance, simplifies data management and enhances productivity. Launched in 2019, VAST has become the fastest-growing data infrastructure startup in history. Looking to simplify your data center and unlock insights from all of your data?

Contact us at

hello@vastdata.com