Igneous ▲▲

Machine Learning/Artificial Intelligence

Our customers range from organizations working on cutting-edge cancer research to studios creating the world's favorite films, and more. They all have one thing in common: massive amounts of unstructured data and the need to effectively manage it.

As a secondary tier for data protection, Igneous is designed to handle petabytes of data and billions of files. Learn how our product, Igneous Unstructured Data Management as-a-Service, provides a comprehensive solution for the following industries and use cases.
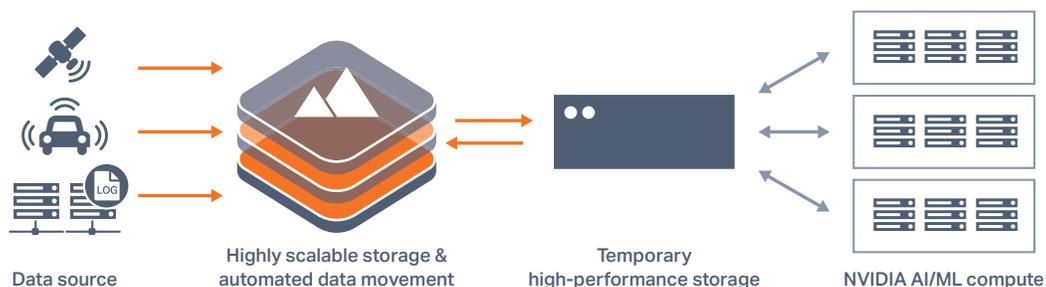
Igneous has customers building artificial intelligence models that revolutionize the diagnosis and treatment of cancer and other life-threatening diseases. Their machine learning workflows utilize Igneous as an archive tier, working in conjunction with high performance storage and computing.

Igneous Unstructured Data Management as-a-Service acts as the central repository for petabytes of imaging data. Small subsets of data (< 2% of the entire dataset) are active at any one time for high performance compute, which acts as a "hot edge" for the data to be processed by image processing software running on a high-performance deep learning platform. In addition, Igneous acts as the central repository to archive all computational results, enabling the "hot edge" to be cleared for subsequent workloads. Delivered as-a-Service and remotely managed, Igneous Unstructured Data Management enables organizations to keep their IT departments lean so that they can focus on groundbreaking research instead.

Requirements of Machine Learning and Artificial Intelligence Workflows

- For machine learning, the more data the better—so being able to **ingest enormous amounts of data** is a necessity.
- Enormous amounts of data require **a strong, modern, and API-driven archive infrastructure** that can handle petabytes of data while enabling usage and computing of the data through other applications.
- The end users are data scientists, who need to focus on analyzing the data rather than managing it. IT support needs to be lean even as data requirements grow, necessitating a solution that's **delivered as-a-Service** to reduce management overhead.

Machine Learning/Artificial Intelligence Workflow

Data source → Highly scalable storage & automated data movement → Temporary high-performance storage → NVIDIA AI/ML compute

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