

| Nexus™ Unlocks the Power of Data

The next generation of the enterprise data broker model

Organizations are awash in an ocean of data, but they can't use it efficiently. Untold value is locked away in unstructured data such as documents, free text, or audio recordings. Manually analyzing and processing this unstructured data is demanding, inefficient, and prone to errors. It can become overwhelming as the mountain of documents continues to grow.

Torch.AI™ has pioneered a solution to the ever-increasing challenge of extracting meaningful value from the unstructured textual data within an enterprise.

What Is Nexus?

Nexus is the core platform offering from Torch.AI. Nexus is an innovative and proven platform designed for enterprise data ingest and orchestration allowing customers to analyze, tag, and enrich data in real time, in the cloud or on-prem. Nexus enables your organization to create value from the unstructured data hidden in your data lake.

The Three Pillars

Data Extract services extract meaningful content from structured, semi-structured, and unstructured input files.

Data link services retrieve and link (or fuse) information from external sources on the internet and dark web.

Knowledge layer services apply machine learning-enhanced intelligence to optimize the quality of content and understand the knowledge encoded within.



With Nexus in your data ecosystem, you can:

- ✓ Analyze unstructured textual and document data in real time, directly from the authoritative source.
- ✓ Seamlessly integrate with upstream and downstream systems.
- ✓ Federate, transform, and enrich data across the ecosystem.
- ✓ Take advantage of context-based data discovery and cataloging capabilities driven by the Nexus Knowledge Layer.
- ✓ Leverage an open architecture with full transparency—including explainable AI and a Software Bill of Materials (SBOM).
- ✓ Maintain ownership of your data. We never make your data our proprietary information.



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Nexus Key Features

Real-Time Data Transformation

Unlike typical data lake implementations, Nexus does not replicate authoritative data to enable its analysis, transformation, and enrichment. Nexus' ability to analyze data in real time absolves an enterprise from unnecessary infrastructure costs, without undermining speed, reliability, or even compliance.

Unstructured Data Processing and Fusion

Nexus enables organizations to semantically understand the wealth of information in their unstructured data, and then use that knowledge to contextualize and correlate their entire data ecosystem. It provides a holistic view of enterprise data that unleashes new insights and speeds decisioning.

Knowledge Layer

The Nexus Knowledge Layer acts as the contextual overlay across the entire data landscape, establishing a clear view of meaningful entities, relationships, and insights while retaining attribution and lineage to the authoritative data for secure, governed, and trusted data discovery.

Semantic Stitching

Unlock the total value of your entire data ecosystem with Nexus Semantic Stitching™, a proprietary data retrieval system which converts business-friendly data requests into optimized technical queries, enabling a “no code” mechanism for data access and discovery. Nexus users and decision-makers can leverage the intelligence within their data without knowledge of SQL queries or programming skills.

Composability

Nexus is a SaaS solution comprised of packaged business capabilities and pluggable microservices, enabling you to easily engage Nexus within your existing architecture. Nexus also supports Bring Your Own Model (BYOM) to wrap your existing data science artifacts in our MLOps environment, freeing data scientists to focus on innovation rather than mundane model operations and maintenance.



Key Benefits

Cost effective

Nexus reduces your technical footprint by eliminating the need for storage and data lake software. Nexus optimizes your human data science resources allowing them to focus on data science – not containers, tech stacks, model operations, and maintenance.

Increase data value

Nexus interacts with authoritative data in real time as opposed to stale, replicated data with fidelity loss. You can unleash new insights by interacting with the totality of your data, including unstructured data at the moment it enters your enterprise.

Reduce risk

Nexus does not persist sensitive data, such as PII. This data remains at rest on the intended authoritative system with the appropriate governance controls. Nexus' ability to categorize object-level information at the moment of existence can prevent sensitive information from ever coming to rest in a data store or system.

Seamless integration

Compose the perfect solution to your unique data needs. Experience APIs assure that minimal (if any) effort is required to harmoniously insert Nexus into an existing architecture.

Third-party data

Rapidly fuse and enrich your enterprise's data with third-party data such as social media data, geographical data, publicly available information (PAI), Dark Web data, and more.

Best-in-class security

Torch.AI meets all federal security requirements and is currently deployed inside the DoD. Nexus can provide a Software Bill of Materials (SBOM). In addition, Nexus uses only explainable AI, and we never make your data our property. Your data remains your data.