

Distributive Data Base Option For Large Language Model (LLM) Released By Scientel

Powered by Gensonix AI DB, Scientel's LLM solution supports multiple DB nodes in a single LLM application

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The distributive Data Base (DB) is an optional configuration that was released by Scientel for its parallel Large Language Model (LLM)

application. These configurations are available on small to large scale HPC networks. Its large-scale configurations can accommodate up to 100s of processing nodes, each with the ability to connect into the central repository DB or support its own local database. Each node may be set up as shared or distributed based on the user requirements in real time.

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Our distributed DB LLM model provides users the flexibility for supporting dynamically changing data on a real time basis by either sharing with a central DB or supporting a fresh local DB”

Norman Kutemperor, CEO

This feature is highly beneficial for applications where a version of the project comes periodically available. When the data changes drastically for several segments at once, it could be time-consuming and difficult to update all the various components. In such cases, a standby DB should be made available, so to replace the older version. This may be switched on instantly for immediate use in real-time. Thus, Gensonix LLM provides the ability to share into the central DB or switch to its local DB by any node, and at any time in the system. Data becomes instantly available upon activation by any node.

The Gensonix Parallel AI LLM was recently run on the Ohio State OSC [Cardinal](#) Supercomputer supporting 9 parallel nodes. This execution was conducted utilizing 36 [Nvidia](#) H100 GPUs with the [DeepSeek](#) R1 model.

Scientel's LLM systems are designed to operate in conjunction with its own Gensonix NewSQL AI DB. These mid-to-large scale LLM systems are more efficient than most alternatives due to its support of Relational, Document, Text and Vector data in distinctly different stores within a single

GENSONIX® DB



Scientel - Gensonix AI DB

AI DB. This storage of all data types in its own native form allows for very high efficiency when compared to competitors. The Gensonix AI DB as a single data repository can handle the various data storage tasks that are often required by smart AI applications, but without the need to convert to other formats such as XML or JSON for storage. This should further enhance storage efficiency.

About Scientel

Scientel, is a U.S.-based, Systems Technology Company. It designs/produces highly optimized high-end servers, bundled with its "GENSONIX™ AI" DB software, as a single-source supplier of complete systems for AI solutions. It also customizes hardware and software for specific applications resulting in higher performance. It's Elastic Scaling Servers can support up to 1000's of compute nodes in a single cluster to meet customer required speeds for virtually any data size.

Scientel's specialty is advanced NewSQL DBMS design and applications/systems integration for advanced system processes. This includes applications in AI, Big Data, and Commercial Intranets combined with IT consulting and support, for "beyond mainframe-level" Large Data Warehouse Appliances.

GENSONIX allows for very user-friendly data manipulation capabilities that are typically found in standard, SQL-based, database management systems. However, it goes beyond this, with its ultra-procedural SDBL™ development system. It is truly an "ALL-in-One SQL" -- an "All Data Management System" in the form of an ultra-flexible, NewSQL DBMS of general capabilities and application potentials. It can also function in concert with SQL systems to efficiently handle both structured and unstructured data that are stored in different data stores within a single DB as a large data warehouse repository. However, it can also handle heavy database loads by itself with the aid of the SDBL query/procedural language, involving up to trillions of rows/transactions for billions of customers. This is a huge advantage in "truly Big Data/AI" structured applications.

Business customers can take advantage of Scientel's capabilities in advanced Business Intelligence and Data Analytics to grow their business by handling AI/Big Data more cost-effectively and with greater insights so to remain competitive when compared to their peers. Scientific, government, and similar organizations can also utilize these capabilities to efficiently process AI/Big Data.

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