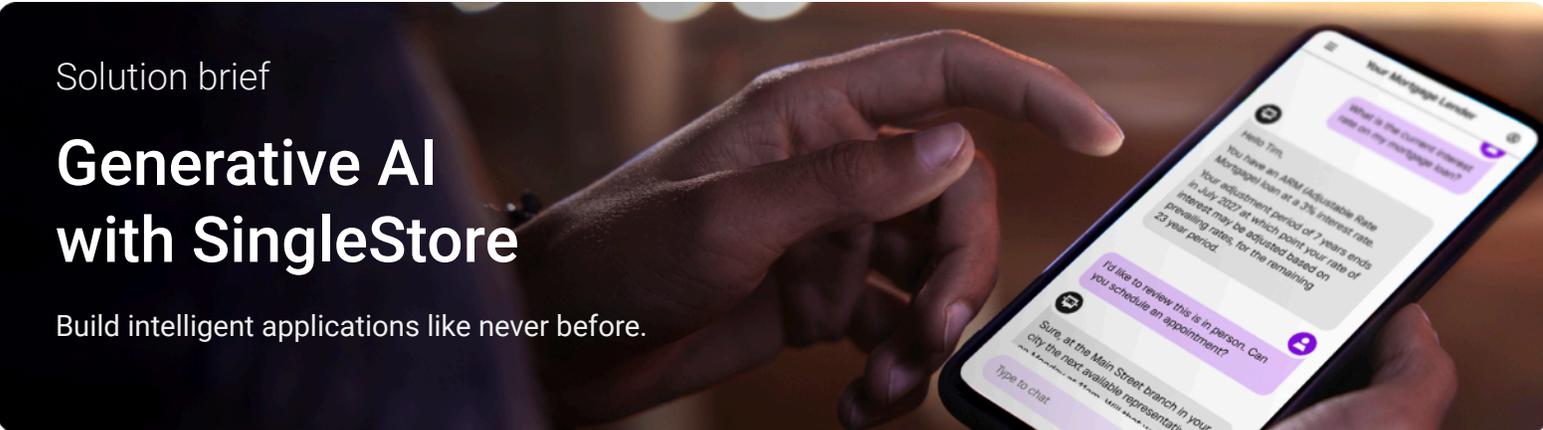


Solution brief

Generative AI with SingleStore

Build intelligent applications like never before.



Introduction

SingleStore is a real-time data platform that empowers users to transact, analyze and contextualize data – and is built for all kinds of applications, analytics and AI.

- **Vector functions, battle tested.** SingleStore has included vector capabilities since 2017 and several customers use it for storing, processing and performing nearest-neighbor searches to power gen AI applications.
- **Easy to get started.** SingleStore offers integrations or plugins for popular tools like OpenAI, Hugging Face, LangChain and Llamaindex – making it easy to get started quickly.

Real-time AI with full context, rich query language and powerful analytics

Use all data relevant to your company



Combine vector embeddings from text, images, audio, video, etc., with other kinds of data including logs, stock market data, clickstream or sensor data. All kinds of structured and unstructured data can be co-located and queried using SingleStore – including [vectors](#), [JSON](#), [time-series](#), text, SQL and geospatial data.

Fast data ingestion from other sources



SingleStore supports a wide range of data sources and connectors, allowing users to ingest data from diverse systems including other databases, HDFS, message queues, log files, cloud storage (Amazon S3) and streaming data platforms like Confluent Kafka.

Powerful SQL



Metadata filtering, joins, aggregates, subqueries, window functions and other language features. Ability to rerank semantic search results based on real-time data.

High performance



Low latency queries (~Milliseconds) matching top data warehouses on benchmarks such as [TPC-H](#) and [TPC-DS](#).

A simpler and more powerful vector database

Simple

Eliminate the complexity, licensing costs or extra training requirements of a pure vector database.



Fast K-Nearest-Neighbor search

Use 'order by/limit k' queries using 'dot_product' and 'euclidean_distance' metrics, combined with arbitrary SQL for metadata filtering. Re-ranking semantic search results is easy with support for 'dot_product' and 'match'.



Notebooks (Preview)

Quickly prototype and deploy with [Notebooks](#) that combine the power of SQL and Python.



Enterprise ready

Get the data security, compliance and high availability appropriate for enterprise applications.



Other key capabilities

Universal storage

Both rowstore and columnstore in one database.



Unlimited storage

Separation of storage and compute.



SingleStore Kai™

Up to 1,000x faster analytics on MongoDB® apps.



High availability

Your applications should stay online + be highly available.



Run anywhere

Hybrid, multi-cloud, SaaS, on-premises, Kubernetes operator



Global leaders choose SingleStore

