



## New MongoDB Atlas Vector Search Capabilities Help Developers Build and Scale AI Applications

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*MongoDB Atlas Vector Search now includes extended capabilities for querying contextual data and performance improvements to accelerate building generative AI applications*

*New integration with Confluent Cloud and MongoDB Atlas Vector Search allows developers to access real-time data streams from a variety of sources to fuel generative AI applications*

*Dataworkz, Drivly, ExTrac, Inovaare Corporation, NWO.ai, One AI, and VISO Trust among organizations building with MongoDB Atlas Vector Search*

LONDON, Sept. 26, 2023 /PRNewswire/ -- MongoDB, Inc. (NASDAQ: MDB) today at MongoDB.local London announced new capabilities, performance improvements, and a data-streaming integration for MongoDB Atlas Vector Search that make it even faster and easier for developers to build generative AI applications. Organizations of all sizes have rushed to adopt MongoDB Atlas Vector Search as part of a unified solution to process data for generative AI applications since being announced in preview in June of this year. MongoDB Atlas Vector Search has made it even easier for developers to aggregate and filter data, improving semantic information retrieval and reducing hallucinations in AI-powered applications. With new performance improvements for MongoDB Atlas Vector Search, the time it takes to build indexes is now significantly reduced by up to 85 percent to help accelerate application development. Additionally, MongoDB Atlas Vector Search is now integrated with fully managed data streams from Confluent Cloud to make it easier to use real-time data from a variety of sources to power AI applications. To learn more about MongoDB Atlas Vector Search, visit [mongodb.com/products/platform/atlas-vector-search](https://mongodb.com/products/platform/atlas-vector-search).



"It has been really exciting to see the overwhelmingly positive response to the preview version of MongoDB Atlas Vector Search as our customers eagerly move to incorporate generative AI technologies into their applications and transform their businesses—without the complexity and increased operational burden of 'bolting on' yet another software product to their technology stack. Customers are telling us that having the capabilities of a vector database directly integrated with their operational data store is a game changer for their developers," said Sahir Azam, Chief Product Officer at MongoDB. "This customer response has inspired us to iterate quickly with new features and improvements to MongoDB Atlas Vector Search, helping to make building application experiences powered by generative AI even more frictionless and cost effective."

Many organizations today are on a mission to invent new classes of applications that take advantage of generative AI to meet end-user expectations. However, the large language models (LLMs) that power these applications require up-to-date, proprietary data in the form of vectors—numerical representations of text, images, audio, video, and other types of data. Working with vector data is new for many organizations, and single-purpose vector databases have emerged as a short-term solution for storing and processing data for LLMs. However, adding a single-purpose database to their technology stack requires developers to spend valuable time and effort learning the intricacies of developing with and maintaining each point solution. For example, developers must synchronize data across data stores to ensure applications can respond in real time to end-user requests, which is difficult to implement and can significantly increase complexity, cost, and potential security risks. Many single-purpose databases also lack the flexibility to run as a managed service on any major cloud provider for high performance and resilience, severely limiting long-term infrastructure options. Because of these challenges, organizations from early-stage startups to established enterprises want the ability to store vectors alongside all of their data in a flexible, unified, multi-cloud developer data platform to quickly deploy applications and improve operational efficiency.

MongoDB Atlas Vector Search addresses these challenges by providing the capabilities needed to build generative AI applications on any major cloud provider for high availability and resilience with significantly less time and effort. MongoDB Atlas Vector Search provides the functionality of a vector database integrated as part of a unified developer data platform, allowing teams to store and process vector embeddings alongside virtually any type of data to more quickly and easily build generative AI applications. Dataworkz, Drivly, ExTrac, Inovaare Corporation, NWO.ai, One AI, VISO Trust, and many other organizations are already using MongoDB Atlas Vector Search in preview to build AI-powered applications for reducing public safety risk, improving healthcare compliance, surfacing intelligence from vast amounts of content in multiple languages, streamlining customer service, and improving corporate risk assessment. The updated capabilities for MongoDB Atlas Vector Search further accelerate generative AI application development:

- **Increase the accuracy of information retrieval for generative AI applications:** Whether personalized movie recommendations, quick responses from chatbots for customer service, or tailored options for food delivery, application end-users today expect accurate, up-to-date, and highly engaging experiences that save them time and effort. Generative AI is helping developers deliver these capabilities, but the LLMs powering applications can hallucinate (i.e., generate inaccurate information that is not useful) because they lack the necessary context to provide relevant information. By extending MongoDB Atlas's unified query interface, developers can now create a dedicated data aggregation stage with

MongoDB Atlas Vector Search to filter results from proprietary data and significantly improve the accuracy of information retrieval to help reduce LLM hallucinations in applications.

- **Accelerate data indexing for generative AI applications:** Generating vectors is the first step in preparing data for use with LLMs. Once vectors are created, an index must be built for the data to be efficiently queried for information retrieval—and when data changes or new data is available, the index must then be updated. The unified and flexible document data model powering MongoDB Atlas Vector Search allows operational data, metadata, and vector data to be seamlessly indexed in a fully managed environment to reduce complexity. With new performance improvements, the time it takes to build an index with MongoDB Atlas Vector Search is now reduced by up to 85 percent to help accelerate developing AI-powered applications.
- **Use real-time data streams from a variety of sources for AI-powered applications:** Businesses use Confluent Cloud's fully managed, cloud-native data streaming platform to power highly engaging, responsive, real-time applications. As part of the [Connect with Confluent](#) partner program, developers can now use Confluent Cloud data streams within MongoDB Atlas Vector Search as an additional option to provide generative AI applications ground-truth data (i.e. accurate information that reflects current conditions) in real time from a variety of [sources](#) across their entire business. Configured with a fully managed [connector](#) for MongoDB Atlas, developers can make applications more responsive to changing conditions and provide end user results with greater accuracy.

### Organizations Already Innovating with MongoDB Atlas Vector Search in Preview

Dataworkz enables enterprises to harness the power of LLMs on their own proprietary data by combining data, transformations, and AI into a single experience to produce high-quality, LLM-ready data. "Our goal is to accelerate the creation of AI applications with a product offering that unifies data, processing, and machine learning for business analysts and data engineers," said Sachin Smotra, CEO and co-founder of Dataworkz. "Leveraging the power of MongoDB Atlas Vector Search has allowed us to enable semantic search and contextual information retrieval, vastly improving our customers' experiences and providing more accurate results. We look forward to continuing using Atlas Vector Search to make retrieval-augmented generation with proprietary data easier for highly relevant results and driving business impact for our customers."

Drivly provides commerce infrastructure for the automotive industry to programmatically buy and sell vehicles through simple APIs. "We are using AI embeddings and Atlas Vector Search to go beyond full-text search with semantic meaning, giving context and memory to generative AI car-buying assistants," said Nathan Clevenger, Founder and CTO at Drivly. "We are very excited that MongoDB has added vector search capabilities to Atlas, which greatly simplifies our engineering efforts."

ExTrac draws on thousands of data sources identified by domain experts, using AI-powered analytics to locate, track, and forecast both digital and physical risks to public safety in real-time. "Our domain experts find and curate relevant streams of data, and then we use AI to anonymize and make sense of it at scale. We take a base model and fine-tune it with our own labeled data to create domain-specific models capable of identifying and classifying threats in real-time," said Matt King, CEO of ExTrac. "Atlas Vector Search is proving to be incredibly powerful across a range of tasks where we use the results of the search to augment our LLMs and reduce hallucinations. We can store vector embeddings right alongside the source data in a single system, enabling our developers to build new features way faster than if they had to bolt-on a standalone vector database—many of which limit the amount of data that can be returned if it has meta-data attached to it. Because the flexibility of MongoDB's document data model allows us to land, index, and analyze data of any shape and structure—no matter how complex—we are now moving beyond text to vectorize images and videos from our archives dating back over a decade. Being able to query and analyze data in any modality will help us to better model trends, track evolving narratives, and predict risk for our customers."

Inovaare Corporation is a leading provider of AI-powered compliance automation solutions for healthcare payers. "At Inovaare Corporation, we believe that healthcare compliance is not just about meeting regulations but transforming how healthcare payers excel in the entire compliance lifecycle. We needed a partner with the technological prowess and one who shares our vision to pioneer the future of healthcare compliance," said Mohar Mishra, CTO and Co-Founder at Inovaare Corporation. "MongoDB's robust data platform, known for its scalability and agility, perfectly aligns with Inovaare's commitment to providing healthcare payers with a unified, secure, and AI-powered compliance operations platform. MongoDB's innovative Atlas Vector Search powers the reporting capabilities of our products. It allows us to deliver context-aware compliance guidance and real-time data-driven insights."

NWO.ai is a premier AI-driven Consumer Intelligence platform helping Fortune 500 brands bring new products to market. "In today's rapidly evolving digital age, the power of accurate and timely information is paramount," said Pulkit Jaiswal, Cofounder of NWO.ai. "At NWO.ai, our flagship offering, Worldwide Optimal Policy Response (WOPR), is at the forefront of intelligent diplomacy. WOPR harnesses the capabilities of AI to navigate the vast oceans of global narratives, offering real-time insights and tailored communication strategies. This not only empowers decision-makers but also provides a vital counterbalance against AI-engineered disinformation. We're thrilled to integrate Atlas Vector Search into WOPR, enhancing our ability to instantly search and analyze embeddings for our dual-use case. It's an exciting synergy, and we believe it's a testament to the future of diplomacy in the digital age."

One AI is a platform that offers AI Agents, Language Analytics, and APIs, enabling seamless integration of accurate, production-ready language capabilities into products and services. "Our hero product - OneAgent - facilitates trusted conversations through AI agents that operate strictly upon company-sourced content, secured with built-in fact-checking," said Amit Ben, CEO and Founder of One AI. "With MongoDB Atlas, we're able to take source customer documents, generate vector embeddings from them that we then index and store in MongoDB Atlas Vector Search. Then, when a customer has a question about their business and asks one of our AI agents, Atlas Vector Search will provide the chatbot with the most relevant data and supply customers with the most accurate answers. By enabling semantic search and information retrieval, we're providing our customers with an improved and more efficient experience."

VISO Trust puts reliable, comprehensive, actionable vendor security information directly in the hands of decision-makers who need to make informed risk assessments. "At VISO Trust, we leverage innovative technologies to continue our growth and expansion in AI and security. Atlas Vector Search,

combined with the efficiency of AWS and Terraform integrations, has transformed our platform," said Russell Sherman, Cofounder and CTO at VISO Trust. "With Atlas Vector Search, we now possess a battle-tested vector and metadata database, refined over a decade, effectively addressing our dense retrieval requirements. There's no need to deploy a new database, as our vectors and artifact metadata can be seamlessly stored alongside each other."

### **About MongoDB Atlas**

MongoDB Atlas is the leading multi-cloud developer data platform that accelerates and simplifies building applications with data. MongoDB Atlas provides an integrated set of data and application services in a unified environment that enables development teams to quickly build with the performance and scale modern applications require. Tens of thousands of customers and millions of developers worldwide rely on MongoDB Atlas every day to power their business-critical applications. To get started with MongoDB Atlas, visit [mongodb.com/atlas](https://mongodb.com/atlas).

### **About MongoDB**

Headquartered in New York, MongoDB's mission is to empower innovators to create, transform, and disrupt industries by unleashing the power of software and data. Built by developers, for developers, our developer data platform is a database with an integrated set of related services that allow development teams to address the growing requirements for today's wide variety of modern applications, all in a unified and consistent user experience. MongoDB has tens of thousands of customers in over 100 countries. The MongoDB database platform has been downloaded hundreds of millions of times since 2007, and there have been millions of builders trained through MongoDB University courses. To learn more, visit [mongodb.com](https://mongodb.com).

### **Forward-looking Statements**

This press release includes certain "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements concerning MongoDB's technology and offerings. These forward-looking statements include, but are not limited to, plans, objectives, expectations and intentions and other statements contained in this press release that are not historical facts and statements identified by words such as "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "project," "will," "would" or the negative or plural of these words or similar expressions or variations. These forward-looking statements reflect our current views about our plans, intentions, expectations, strategies and prospects, which are based on the information currently available to us and on assumptions we have made. Although we believe that our plans, intentions, expectations, strategies and prospects as reflected in or suggested by those forward-looking statements are reasonable, we can give no assurance that the plans, intentions, expectations or strategies will be attained or achieved. Furthermore, actual results may differ materially from those described in the forward-looking statements and are subject to a variety of assumptions, uncertainties, risks and factors that are beyond our control including, without limitation: the impact the COVID-19 pandemic may have on our business and on our customers and our potential customers; the effects of the ongoing military conflict between Russia and Ukraine on our business and future operating results; economic downturns and/or the effects of rising interest rates, inflation and volatility in the global economy and financial markets on our business and future operating results; our potential failure to meet publicly announced guidance or other expectations about our business and future operating results; our limited operating history; our history of losses; failure of our platform to satisfy customer demands; the effects of increased competition; our investments in new products and our ability to introduce new features, services or enhancements; our ability to effectively expand our sales and marketing organization; our ability to continue to build and maintain credibility with the developer community; our ability to add new customers or increase sales to our existing customers; our ability to maintain, protect, enforce and enhance our intellectual property; the growth and expansion of the market for database products and our ability to penetrate that market; our ability to integrate acquired businesses and technologies successfully or achieve the expected benefits of such acquisitions; our ability to maintain the security of our software and adequately address privacy concerns; our ability to manage our growth effectively and successfully recruit and retain additional highly-qualified personnel; and the price volatility of our common stock. These and other risks and uncertainties are more fully described in our filings with the Securities and Exchange Commission ("SEC"), including under the caption "Risk Factors" in our Quarterly Report on Form 10-Q for the quarter ended April 30, 2023, filed with the SEC on June 2, 2023 and other filings and reports that we may file from time to time with the SEC. Except as required by law, we undertake no duty or obligation to update any forward-looking statements contained in this release as a result of new information, future events, changes in expectations or otherwise.

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