

DATASTAX

# DataStax with Azure

One-stop Generative AI RAG + Vector Stack that yields 74x faster response time and 20% higher relevance



# Deliver Generative AI applications with confidence with a one-stop GenAI Stack



## One-stop Generative AI stack

Combined RAG and Vector DB stack with support for both structured and vector data, and integrated with cutting-edge Generative Models such as those from OpenAI and Meta.



## Industry-leading relevance and performance

20% higher relevance      9x higher throughput than Pinecone

74x faster response time      80% lower TCO than Pinecone



## Fast path to production

Deploy using the APIs and languages you already use and love, and leverage the powerful AI coding assistant, GitHub Copilot to accelerate development.



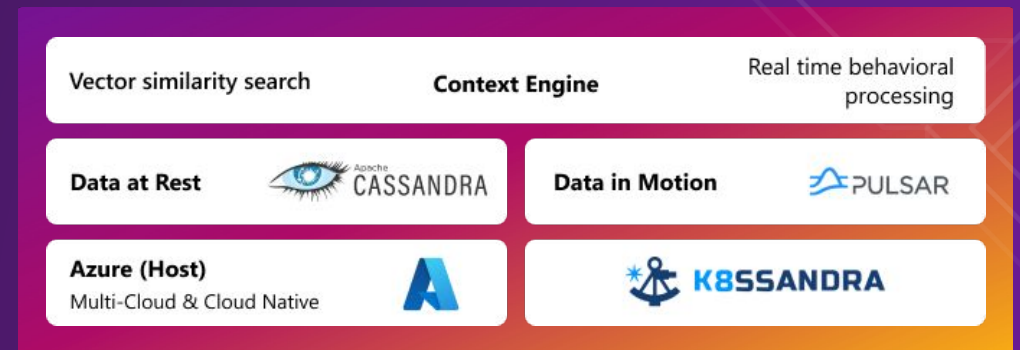
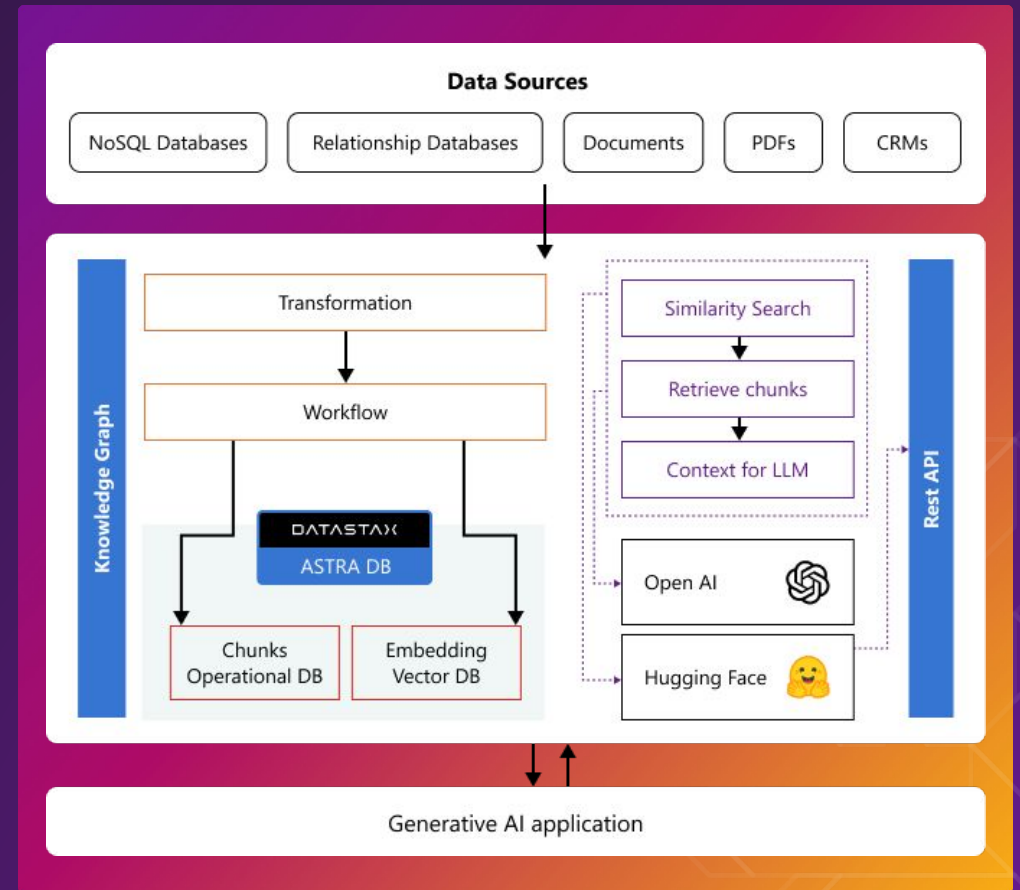
## Scalable

Scale to petabyte-sized data across the most number of regions globally, while maintaining enhanced high availability.



## Enterprise-grade security and compliance

Meet even the strictest security and compliance standards, such as PCI, SOC2, HIPAA, and ISO 27001.





## DataStax Astra DB

“DataStax provides an amazing product when it comes to vector capabilities that is very inherent to Generative AI application development. It’s a collaborative effort so that is highly differentiating and valuable to us to create a solution that is scalable, cost-effective and has all the security and privacy considerations.”

**Tisson Matthew**

Founder and CEO of Skypoint Cloud

## Transforming Senior Care with Astra DB's vector search capabilities on Azure

### Situation

In the the senior care industry, Finding specific policies and operating procedures is time-consuming and challenging due to scattered storage across various platforms. Skypoint wanted to provide a natural and intuitive interface for seniors to access them in real-time.

### Solution

Skypoint leveraged the vector search capabilities in DataStax to enable semantic search, ensuring customers can access the most relevant and up-to-date data in real-time. Using DataStax’s vector database as a memory component, Skypoint's generative AI applications gain a deeper understanding of context, further elevating the overall customer experience. Further, Azure provides the foundation for its entire compute fabric, networking, and storage infrastructure.



**ACI Worldwide**

## DataStax Enterprise

“The DataStax Enterprise environment is a horizontally scalable data environment; once the demands on that environment increase, we add more nodes to the cluster to expand the capabilities without any downtime.”

**Ken Chenis**  
Chief Architect at ACI Worldwide

## Achieving 100% uptime and easy scalability for ACI Worldwide, Inc. with DataStax Enterprise (DSE)

### Situation

For ACI Worldwide, the number of eCommerce transactions increased by 19% and the fraud attempts on those transactions increased by 22%. The payments intelligence giant was looking for a flexible database that could manage massive amounts of transactional data in real-time and mine it for mission-critical fraud insights.

### Solution

DataStax provided a highly performant complex event processing (CEP) engine, which deconstructs every element of a transaction—from the ATM used to the demographics of the person making the charge to the type of charge—to determine if it’s legitimate or potentially fraudulent. The solution saves customers millions and provides multi-cloud flexibility and a horizontally scalable data environment.



Thank you