

InterSystems Data Studio AI Assistant



InterSystems Data Studio AI Assistant provides a natural language interface that helps you understand your database schemas, generate queries, and perform detailed analysis on your data.

Intelligent Assistants for Secure and Efficient Data Analysis

In modern data-intensive environments, data stewards, developers, data scientists, and database administrators face constant pressure to deliver faster results while navigating increasingly complex systems. The AI Assistant is an optional Generative AI-powered productivity extension to InterSystems Data Studio™ designed to streamline workflows, reduce cognitive load, and accelerate development of Generative AI workflows and agents directly within the InterSystems environment.

With the AI Assistant module, users gain access to interactive assistants that make it easier to understand, navigate, and leverage their structured and unstructured data more effectively. Built on an agentic framework, it provides reasoning, diagnostics, evaluation, and governance capabilities. Users can also design custom assistants and agents that are enriched with specialized knowledge and memory for context-aware interaction.

Unlocking Insights and Value in Your Data

The AI Assistant is designed to help organizations unlock deeper insights and greater value from their data—boosting both productivity and efficiency. The AI Assistant introduces a natural language interface for intuitive user interaction, and includes the following core capabilities:

- **Personalized assistants:** Assistants can be embedded with domain-specific knowledge and customized for unique workflows.
- **Secure data access:** Fine-grained permissions ensure assistants only access approved datasets, supporting compliance, and governance.
- **Live data awareness:** Assistants operate on the most up-to-date data managed by automated data operations within Data Studio.
- **Extensible agentic framework:** Contains a flexible and modular foundation that provides multi-step reasoning, diagnostics, and testing/evaluation capabilities, allowing agents to iteratively improve responses and adapt to complex tasks.

Data Studio AI Assistant provides a turnkey solution for using agentic AI for faster and better insights into your data.

Most importantly, these features, combined with InterSystems Data Studio, eliminate the technical overhead typically associated with creating AI-ready data, AI development, and AI integration, offering a user-friendly, turnkey experience.

Speed and Simplify Generative AI-Powered Insights

InterSystems Data Studio AI Assistant represents a significant leap forward in how organizations interact with their data. By combining customizable AI assistants, an extensible agentic framework, and robust governance controls, Data Studio empowers teams to move from question to insight faster than ever before. Whether generating and executing complex SQL queries through natural language, parsing and leveraging unstructured documents for insights, or visualizing trends through specialized agents, users can focus on extracting value rather than wrestling with technical complexity.

Other key capabilities include:

- **Customized assistants with embedded knowledge and memory:** AI assistants tailored to specific use cases with built-in domain specific information and session-level memory for maintaining context within a conversation.
- **Agentic framework with multi-pass reasoning:** Architecture that enables AI to autonomously plan, execute, and refine tasks through iterative reasoning steps rather than single-shot responses.
- **Adaptive PDF semantic parsing and embedding automation:** Intelligent extraction of meaning and structure from PDF documents, automatically converting content into vector embeddings for query, search, and retrieval.
- **Knowledge stores:** Centralized repositories where processed vectorized information is stored and organized for efficient retrieval by AI assistants.
- **Multiple assistant sessions:** Support for running concurrent, independent conversations with different assistants and maintaining separate context threads simultaneously.
- **Assistant governance:** Administrative controls for managing permissions, monitoring usage, enforcing policies, and ensuring compliance across AI assistant deployments.
- **Integrated SQL assistant** — A specialized assistant capable of understanding natural language queries and translating them into SQL commands to interact with structured data.
- **Out-of-the-box agents:** Specialized agents, including agents for visualizing data through charts and graphs, and for discovering, indexing, and managing metadata about available data assets.

The InterSystems Difference

What sets Data Studio apart is its balance of power and accessibility. The AI Assistant delivers enterprise-grade capabilities including fine-grained security, multi-pass reasoning, and live data awareness, while eliminating the integration burden that typically accompanies AI adoption. Organizations can deploy intelligent assistants tailored to their unique domains and workflows without building infrastructure from scratch, accelerating time-to-value, and reducing total cost of ownership.

InterSystems provides:

Unique architectural approach: A smart data fabric complements all existing infrastructure, applications, and data management silos to unify data from all internal and external sources. This helps to simplify the creation and maintenance of accurate, trusted, real-time, AI-ready data and enable Generative AI-driven decision-making on a single platform.

Moves the processing to the data: Our approach requires less movement of data. That means less potential for data errors, faster processing, greater security, and lower costs.

Conclusion

As data volumes grow and analytical demands intensify, the need for intelligent, secure, and efficient data management has never been greater. InterSystems Data Studio AI Assistant positions InterSystems users at the forefront of this evolution, transforming data management and analytics into a collaborative workspace where human expertise and AI capabilities work in concert. The result is not just faster answers, but smarter decisions—powered by the data you already have.

[Learn more](#)

[InterSystems](#), A Creative Data Technology Provider.

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