



Revolutionize your data management with AI

Elevate your data game

Organizations struggle to derive actionable insights due to lengthy data engineering processes and poor data discoverability, slowing agility. At the same time, the rising total cost of ownership (TCO) from platform migration, modernization, and asset proliferation adds financial strain. Integrating diverse data sources, from unstructured to the Internet of Things (IoT) and streaming data, adds further complexity to the data landscape. These issues are concerns around data quality, AI explainability, and security. Our AI-based data management solution is designed to address these enterprise-level challenges, delivering enhanced efficiency, cost optimization, and a trustworthy data environment.

Why Virtusa?



Significant cost and time savings:

Achieve a 20% - 45% reduction in costs and project timelines with Virtusa's AI-enabled accelerators.



Cutting-edge technology: Leverage best-in-class platforms, such as generative AI-led automation tools, AI-enabled data quality checks, and advanced bots for insight and database management.



Comprehensive solutions: Benefit from AI-powered offerings across the entire data management life cycle, including data quality, engineering, policy enablement, migration, and synthetic data generation.



Strategic hyperscaler partnerships: Access AI-driven solutions developed in collaboration with leading hyperscalers, ensuring robust and scalable implementations.

Virtusa's AI-enhanced suite simplifies data life cycle

Virtusa's AI-enhanced data management suite leverages AI and genAI to optimize the entire data life cycle, automating key processes to reduce manual work and improve data management and analysis. By partnering with Azure AI Studio, Azure OpenAI Services, and Azure AI Document Intelligence, Virtusa delivers AI-driven data management solutions tailored to solve complex data challenges. Key capabilities include:

AI-based data quality

AI-based DQ measurement, enablement and enforcement. Automated data profiling and reconciliation.

AI-assisted data model / data mapping generation

STTM generation based on requirements. Data model generation - Source / target and reconciliation by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-enabled test script generation

Generating QA test script to validate ETL pipeline, migrated data by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-augmented DW

Chatbot interface to query underlying data assets. Cohesive view on structured and unstructured data by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-assisted code generation / conversion

Optimization and automation of data integration, pipeline profiling and reconciliation by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-assisted data policy enablement

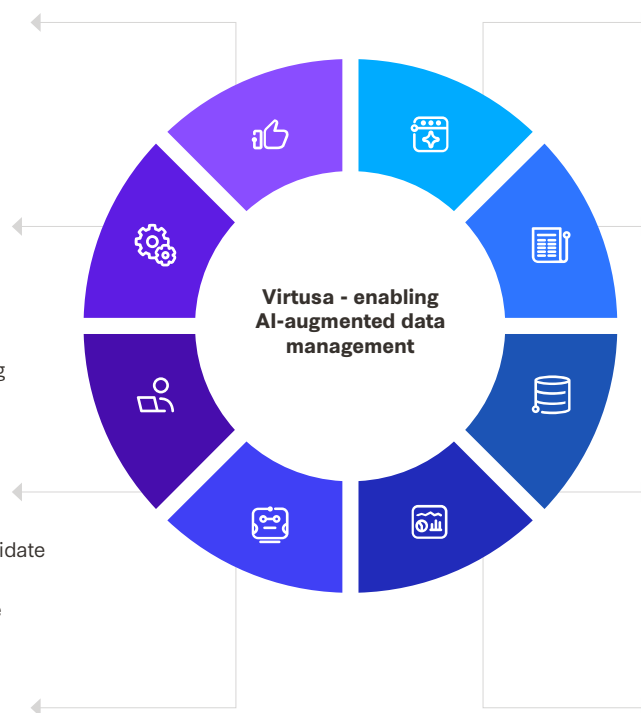
Data policy extraction, enablement, and enforcement. DG workflow automation, including stewardship Auto: Auditing against policies by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-enabled data migration

Metadata generation: Static and dynamic queries, source/target schema generation by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.

AI-enabled synthetic data generation

Synthetic data generation based on sample data/metadata by leveraging Azure GPT LLMs like 3.5 Turbo, 4 and 4o.



Case studies

1. Data Engineering for a Multinational insurance company: GenAI was harnessed to fine tune large language model with Prompt Finetuning and Instruction context Learning, which converted the native DDL & DML queries and business codes, store procedures from Source to Target compatible codes and artifacts.
2. Virtusa helped a global investment banking and services group increase SQL script generation accuracy by 90% through script generation and ETL pipeline validation.

