



Modernizing data ecosystems with Agentic Data Management

Brillio's Agentic Data Management solutions help enterprises uncover greater strategic value from their data modernization investments with agent-driven data management.

Why is modernizing data ecosystems so complex?

Traditional data modernization comes with a rigid set of challenges that hinder organizational efficiency and scalability. Several of these challenges stem from manual processes that demand extensive human intervention—slowing down operations, increasing costs, and limiting adaptability for fast-evolving businesses. Siloed and fragmented data further complicate modernization efforts since critical information often resides across multiple platforms. These inconsistencies collectively snowball over time, reducing the effectiveness of AI-driven decision-making and making it harder for organizations to use their data in the best way possible.

Furthermore, with high dependencies on technical expertise, companies grapple with the complexities of managing data platforms—an avenue that requires specialized knowledge in data engineering, governance, and analytics. This overreliance prevents business users from extracting the desired value from available data. Also, legacy systems are crucial to an organization's functioning. Still, they are inherently inflexible and fail to accommodate evolving business needs. The lack of adaptability in these legacy systems leads to inefficiencies and missed opportunities, making it difficult for organizations to stay competitive in a constantly evolving landscape.

Managing data with AI agents is the next big thing. Here's why.

Robust data management is foundational to AI scalability, without which organizations cannot fully capitalize on AI-driven automation, analytics, and decision-making capabilities. Ensuring high-quality, well-governed, and accessible data is crucial—this is where agentic data management comes in. It unifies powerful automation with scalable AI and modular, agent-driven frameworks to create responsive, real-time data ecosystems with numerous benefits as follows:

Consistent performance and time to market: AI agents help build the desired data management solution and framework once and reproduce outcomes consistently afterward. AI agent-driven automation significantly reduces the implementation timelines compared to conventional data management.

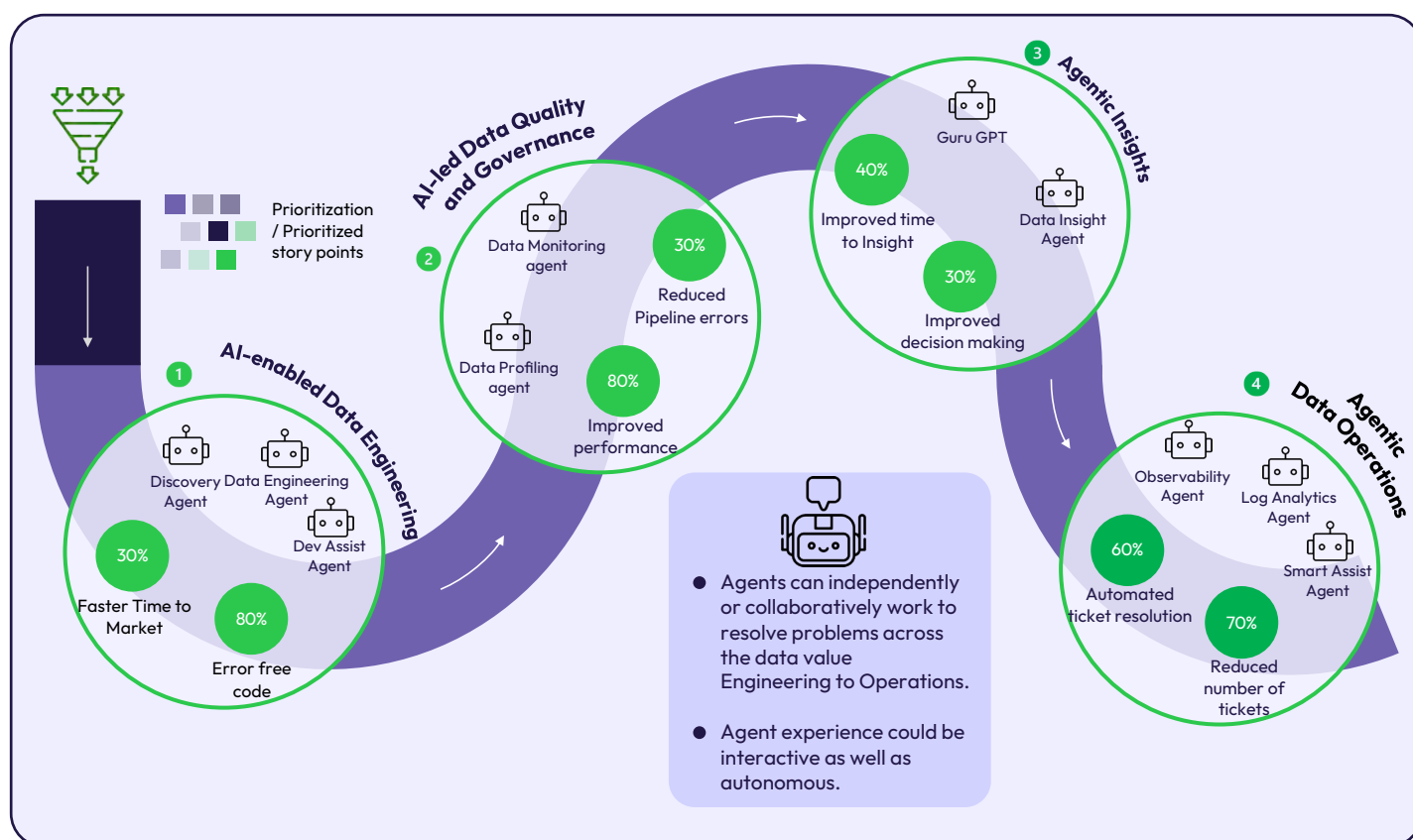
Faster modernization: When tasked with reasoning, execution, and experimentation, AI agents automate complex data workflows with minimal human intervention. They make a strong case for continuous, seamless operations and scalability with their adaptive learning and improvement.

Proactive decision-making: AI agents anticipate challenges, provide real-time recommendations, and take corrective actions autonomously, reducing disruptions to operations.

Reduced technical dependencies: Agents continuously analyze data to understand user behavior and interactions, progressively refining their learning models. This empowers business users to glean the insights they need independently without solely relying on extensive technical expertise.

Future-ready architecture: With a self-learning and scalable design, Agentic AI ensures organizations are well-equipped to meet modern data challenges that push digital transformation imperatives forward.

Brillio's AI-driven agentic data management solutions



Our AI-powered data management solutions integrate seamlessly with leading platforms like Snowflake, Databricks, and Google Cloud and are as follows.



AI Data Management and Governance



AI Data Operations



AI Data Analytics



AI Data Engineering



AI Data Management and Governance

In the race for competitive advantage, businesses must prioritize data management and governance. Our solutions, encompassing data quality, master data management, data cataloging, and business glossaries, form the backbone of efficient, data-driven organizations. By integrating AI, businesses can streamline processes, improve accuracy, and derive higher value from their data while ensuring compliance and governance. Our solution capabilities include:



Agent data quality

Analyze data quality comprehensively to uncover actionable insights and identify discrepancies or anomalies across datasets. With powerful visualization capabilities, data stewards can quickly prioritize and implement corrective measures, fostering enhanced data health and reliability.



AI-enabled data lineage

Map data lineages across disparate systems and tools using an interactive and intuitive interface and achieve end-to-end visibility. Trace data origins, transformations, and destinations seamlessly to ensure high clarity and accuracy at every stage of the data lifecycle.



AI Data Operations

Scaling operations effectively requires more than traditional tools. With our solutions for AI-enabled data operations, we redefine what efficiencies can truly become by delivering advanced monitoring, precision, and problem-resolution capabilities. Our AI solutions go beyond conventional approaches, empowering organizations to maintain seamless workflows, reduce operational costs, and improve decision-making in large-scale application-managed services engagement through:



Data observability

Maintain data accuracy and integrity while end-to-end tracking enables better governance and transparency. Additionally, AI-powered FinOps tools identify data usage patterns, optimize resource allocation, and reduce costs.



Log analytics

Monitor jobs in real-time with advanced AI-enabled log analytics, proactively detecting issues, providing automated root cause analysis, and resolving issues automatically. These capabilities minimize downtime and improve operational efficiency, ensuring a reliable and streamlined data ecosystem.



AI Data Analytics

Activating and leveraging data effectively is a game-changer for businesses. How? Our AI Data Analytics offering helps businesses extract meaningful insights, turning raw data into actionable intelligence. It empowers teams to ask complex, nuanced questions and uncover trends, patterns, and opportunities that might otherwise go unnoticed. Our AI Data Analytics offerings go beyond streamlining—we elevate the strategic value of data, arming businesses with the tools to anticipate customer needs, optimize operations,



AI-enabled BI

Gain deep insights into trends with a clear understanding of business dynamics and opportunities. Generate visual summaries with AI to simplify complex datasets and make them accessible and actionable for decision-makers. Deliver precise answers to critical business questions, enabling data-driven decisions.



AI Data Engineering

As organizations embrace AI-enabled platforms, the demand for scalable and reliable data engineering solutions will skyrocket. Our AI data engineering solutions focus on building a strong foundation for innovation by modernizing infrastructure and enabling smooth transitions to platforms that will allow businesses to manage large-scale data and create scalable data products. What's more, optimizing data pipelines, migration strategies, and advanced analytics becomes seamless, driving transformative change in data ecosystems with:



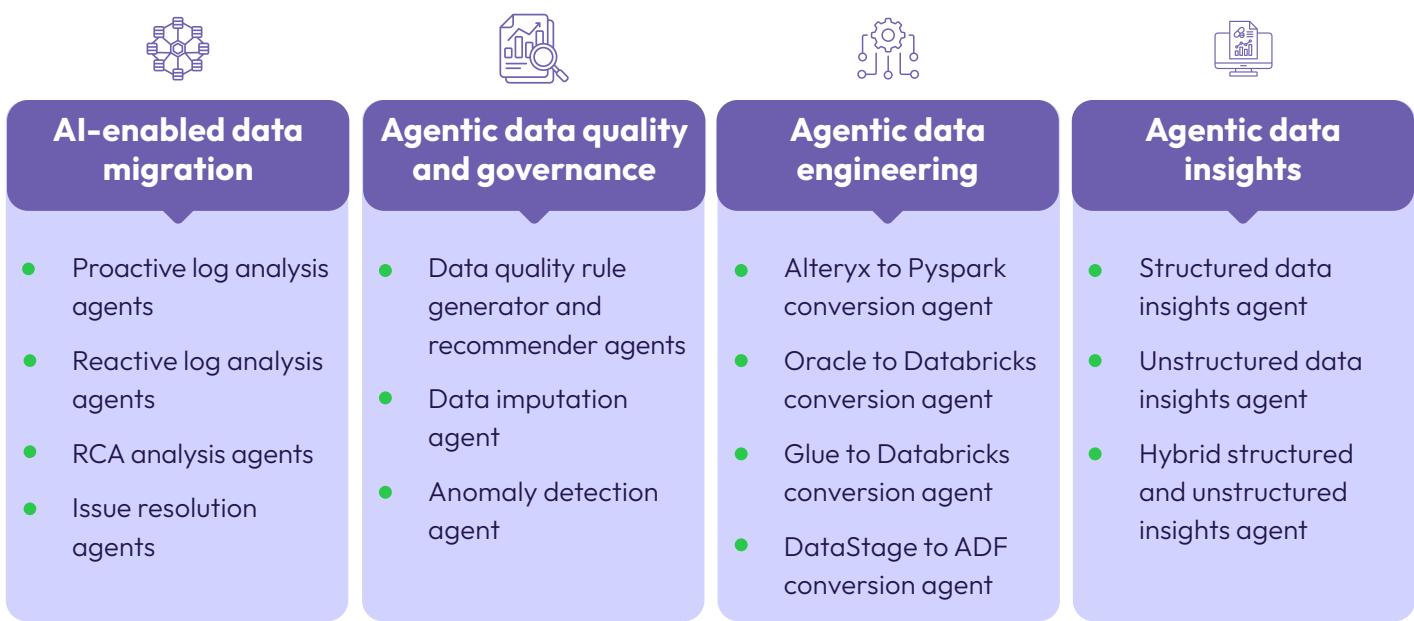
AI-enabled data migration

Ensure smooth and reliable transitions to modernized data platforms by addressing critical factors like scalability, data integrity, efficiency, and automation. This comprehensive solution enables seamless integration between source and destination storage systems while efficiently staging data for migration.

It allows for secure and scalable data transfer from cloud storage to Google BigQuery, ensuring a streamlined process supported by seamless data validation to maintain accuracy and consistency. Furthermore, AI optimizes SQL queries for BigQuery, enhancing performance and ensuring the migrated data is ready for immediate use in advanced analytics and decision-making.

Our North Star: A fully autonomous data ecosystem

Agentic data management represents a fundamental shift in how organizations approach data modernization. Overcome the limitations of traditional data management with AI-driven agents for automation, proactive decision-making, and continuous learning. At Brillio, we envision a self-learning, collaborative, agent-driven data ecosystem where specialized AI agents drive automation across key functions:



With a future-ready approach armed to unlock new levels of efficiency, agility, and intelligence, our agentic data management solutions will help our clients build scalable, intelligent, and high-performing data ecosystems.

About Brillio

Brillio is one of the fastest growing digital technology service providers and the partner of choice for many Fortune 1000 companies seeking to turn disruptions into competitive advantages through innovative digital adoption. We help clients harness the transformative potential of the four superpowers of technology: cloud computing, Internet of Things (IoT), artificial intelligence (AI) and mobility. Born digital in 2014, we apply our expertise in customer experience solutions, data analytics and AI, digital infrastructure and security, and platform and product engineering to help clients quickly innovate for growth, create digital products, build service platforms, and drive smarter, data-driven performance. With 14 locations across the US, the UK, Romania, Canada, Mexico, and India, our growing global workforce of 6,000 Brillians blends the latest technology and design thinking with digital fluency to solve complex business problems and drive competitive differentiation for our clients. Brillio was certified by Great Place to Work® in 2021, 2022, 2023, and 2024.



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