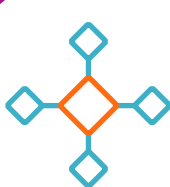# Charting AI: 10 Must-Have Data Management Essentials

Cloud modernization and artificial intelligence (AI) go hand in hand. In fact, 84% of data leaders strongly believe modernizing legacy data infrastructure to the cloud is essential to maximize AI benefits.

To unlock the full potential of AI, fast-forward your cloud journey and look out for these key data management capabilities.

Data integration

Get your hands on a data management platform that can integrate data from various sources, including databases, data lakes, external application programming interfaces (APIs) and streaming data — making extract, transform and load (ETL) processes seamless.

Data quality and governance

Ensure data is accurate, consistent and error-free with advanced data quality features. Utilize data governance tools to maintain data integrity and comply with regulations.

Data cataloging and metadata management

Make it easy for users to discover, understand and access data assets with a data catalog. Plus, equip yourself with metadata management capabilities to track data lineage and supply context for data usage.

Scalability

Opt for a data management platform designed for scalability — one that can handle growing data volumes and workloads as AI initiatives expand.
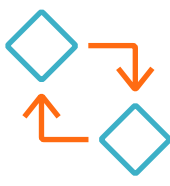
Real-time data processing

Turn to real-time data ingestion, processing and analysis for AI use cases that require up-to-the-minute insights and actions.

Data access and APIs

Take advantage of APIs and cutting-edge tools to access data programmatically, enabling effortless integration with AI algorithms and applications.

Data versioning and lineage

Trace data changes and their impact on AI outcomes with data versioning and lineage tracking, providing transparency and reproducibility in AI model development.

Automated data pipeline orchestration

Reduce manual effort and errors by streamlining data processing and transformation tasks with automated workflows and data pipeline orchestration features.

Machine learning integration

Simplify AI model development and deployment by integrating with machine learning (ML) platforms and libraries, like TensorFlow and PyTorch.

API management

Control access and monitor usage with API management capabilities — this is vital if you expose data for AI consumption.

Ignite AI with a cloud-native data management platform.

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Source: Informatica, Why You Need Cloud Modernization to Unlock the Potential of AI, 2024

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