

Scalable Acceleration and Automation for the Microsoft Azure Lifecycle

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Give stakeholders across the enterprise access to more insights. With Teradata VantageCloud and Azure Machine Learning you can enhance your advanced analytics projects' time to value, unlocking the full power of your data.

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The cost of the AI/ML scalability dilemma

The top reasons enterprise analytics projects fail include:

- Inefficient data preparation
- Lack of flexibility to use preferred tools/models
- Difficulty scoring data live at scale

Recent estimates suggested between \$9.5 and \$15.4 trillion in value could be unlocked with advanced analytics.¹ Artificial intelligence (AI) and machine learning (ML) were highlighted as crucial drivers of that value. But despite increased investments in analytics solutions, AI and ML, companies today are still struggling to capture real value from their analytics projects. Gartner predicts only 20% of analytic insights will deliver business outcomes.²

¹ McKinsey Global Institute, Notes from the AI Frontier: Applications and value of deep learning
² Gartner, Our Top Data and Analytics Predicts for 2019, Andrew White, January 3, 2019



\$15.4

trillion value that can be unlocked with advanced analytics



74%

organizations that haven't moved their Big Data/AI initiatives into widespread production¹



20%

of analytic insights will deliver business outcomes



¹ 2022 New Vantage Partners Data and AI Leadership Executive Survey



Move AI/ML projects to production at scale in weeks

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Teradata VantageCloud empower enterprises to overcome scalability challenges and quickly drive measurable business value from their analytics investments.

Unleash AI Innovation

Unlock value at scale

Teradata VantageCloud is the complete cloud analytics and data platform to democratize data access, operationalize analytics, and reduce waste through improved cost visibility and management. The cloud-native architecture scales elastically and cost effectively to meet organizational needs and executes complex analytics with data science tools and languages.

Teradata ClearScape Analytics are the powerful and connected analytic capabilities embedded in VantageCloud that accelerate data preparation. Solve complex problems fast and get clearer insights with in-database functionality. ClearScape Analytics lets you deploy and monitor models at scale.

Azure Machine Learning is a fully managed service that empowers data scientists and developers to build, deploy and manage highquality models faster and with confidence. Azure ML runs on premises, in multi-cloud environments and at the edge.

Faster time-to-value; greater ROI

Deploying AI/ML projects at scale is what drives value and ROI. The seamless integration between Azure ML and VantageCloud bring people, data, and AI to work together, with transparency, to create value, fast. Teradata's Trusted AI approach enables and ensures the collaboration necessary for effective, trusted, deployment at scale.

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Trusted AI Principles



People

A human-centered approach to AI improves compliance with safety and privacy rules, ethical and responsible standards as well as enhancing environmental sustainability. VantageCloud and Azure ML provide reliable and effective data security, protect personally identifiable information (PII), prevent inadvertent bias from model drift and limit potentially harmful impacts on our environment and society.



Transparency

Transparency is being able to understand how and why an AI-driven decision was made. VantageCloud and Azure ML deliver visibility into the data behind decisions, including how models use data and comply with regulations. We enable validation that data is trustworthy before any AI is implemented and provide explainable and accountable reasoning behind model outputs when it is. Transparency powers flexible and fast innovation through open AI ecosystems.



Value Creation

Performance is vital to generate value from AI. Improved reliability, speed and accuracy will ensure that the ROI of AI models far outweighs the cost of experimentation. API integration with Azure ML offers direct, transparent, real-time access to models that can be quickly operationalized at scale in VantageCloud. Deploying models for live data scoring in VantageCloud delivers the crucial insights needed to drive business value at scale - all at a lower total cost of ownership.

Unlocking possibilities across industries

Enterprises across all industries are investing in AI/ML for a variety of use cases from fraud prevention to reducing customer churn. From telemetry analytics and supply chain optimization to prevention of catastrophic infrastructure failure - the potential applications of AI are virtually limitless.

With VantageCloud and Azure Machine Learning organizations can accelerate AI/ML projects to deliver data-driven insights that power real world business outcomes. It starts with identifying breakthrough AI solutions and then scaling for the greatest possible impact on people and enterprises alike.

Unlocking insights makes more possible in Manufacturing



Enable predictive maintenance and more uptime

Manufacturers can preempt the failure of vital machinery or components using advanced analytic algorithms on telemetry data, reducing downtime and maintenance, lengthening service life, and improving inventory planning.



Improve predictive quality and yield

Manufacturers can leverage VantageCloud and Azure ML to quickly build and deploy AI models to identify the root cause of process based losses related to factors like quality, yield, and energy efficiency, thereby protecting their bottom lines.



Improve Productivity

Use VantageCloud and Azure ML to create advanced manufacturing analytics models that deliver insights from diverse data sources to map ideal customer and product experiences.



Unlocking insights makes more possible in Healthcare



Create a seamless patient experience

Streamline patient data across sources and systems to improve decision-making and outcomes. Use Azure ML and VantageCloud to build and deploy AI to automatically extract, process, and analyze data from handwritten notes to electronic records quickly and accurately.



Leverage AI for diagnoses

Advance analytics and AI can assist in better diagnoses and disease progression whilst also tailoring wellness and healthcare interventions to individual patients.



Strengthen fraud detection

To keep patient data secure, fraud detection models must spot suspicious healthcare claims before they impact customers. Deploy AI with Azure ML and VantageCloud to detect suspicious transactions before they occur.



Unlocking insights makes more possible in Telecommunications



Increase network profitability

A smart network roll-out and customer experience-based operations are powerful levers for profitability. VantageCloud and Azure ML equip operators with the ability to consider multiple factors, such as granular cost details, service quality, and legacy equipment.



Guide customer journeys

VantageCloud and Azure ML provide insight into individual customer journeys, enabling companies to proactively steer each customer to faster service resolution, improved always on experiences across touchpoints, leading to increased sales.





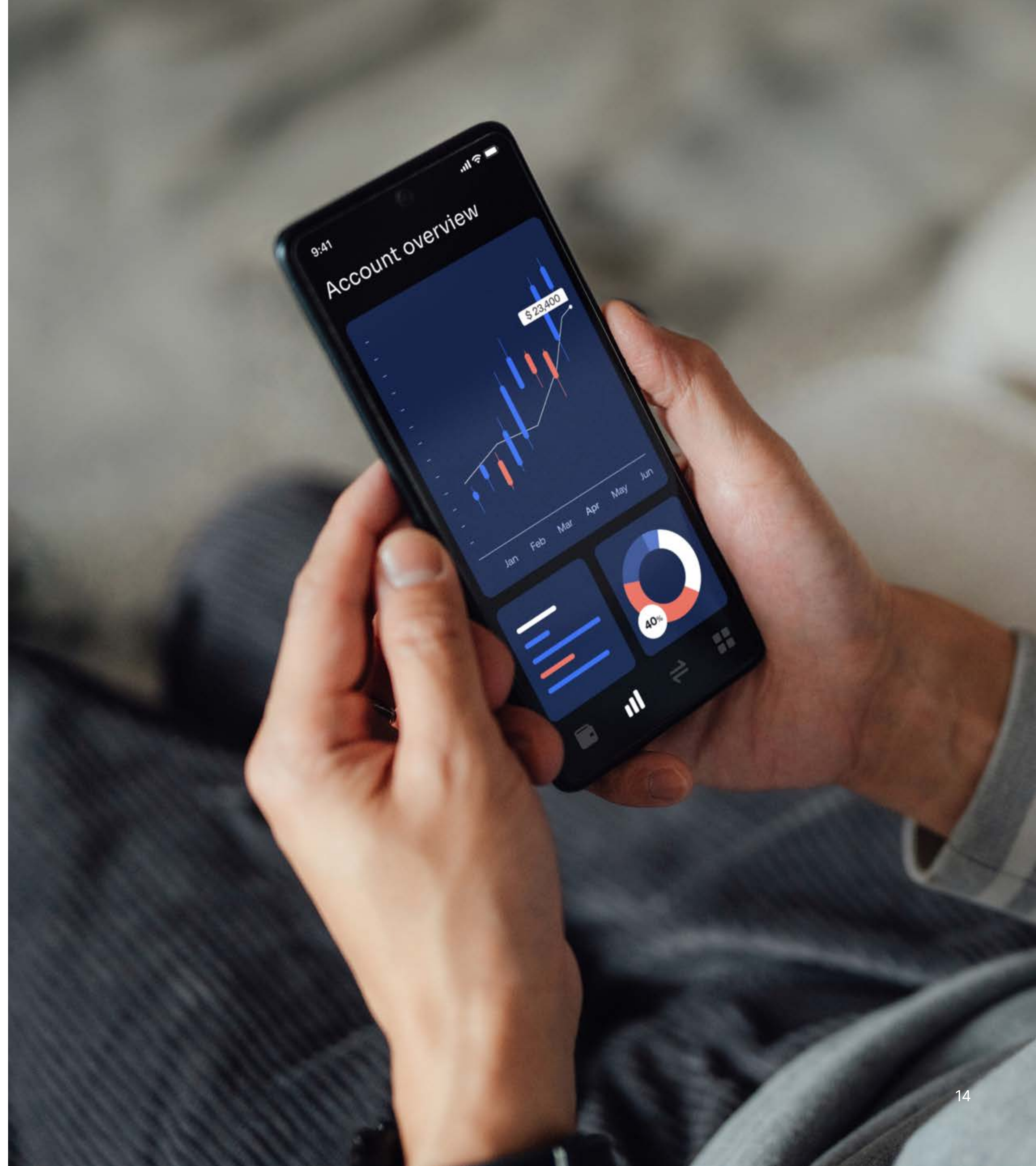
Accelerate innovation

Meet surging customer demand by breaking down silos, unifying efforts, and unleashing AI at scale to be ready for what's next.



Unlocking insights makes more possible in Financial Services

-  **Automate risk and fraud prevention**
Borrowers that miss payments are a big risk for lending institutions. Preventing fraud saves cost and improves customer experience. Azure ML and VantageCloud help financial institutions build and deploy AI to predict the likelihood of loan defaults and spot fraudulent activity in real time.
-  **Deliver harmonized data across the enterprise**
Use data-led listening and generative AI to make hyperpersonalized recommendations that reduce churn and increase revenue. Together, VantageCloud and Azure ML accelerate predictive analytics and automation to help grow revenue, reduce attrition and maximize satisfaction.



Unleash AI with VantageCloud and Azure ML

At Teradata we recognize that one size does not fit all. We partner with the world's leading providers to deliver the technology, resources, and knowledge that you need. Allow your teams to be more nimble, experimental, and innovative with tools of their choice. The combination of VantageCloud and Azure ML eliminates complexity and accelerates time to value while giving you full control over costs.

Modernize your data and analytics estate with VantageCloud on Microsoft Azure

Contact Teradata today to learn how you can modernize your data and analytics estate with VantageCloud Lake on Azure .

About Teradata

At Teradata, we believe that people thrive when empowered with trusted information. That's why we built the most complete cloud analytics and data platform for AI. By delivering harmonized data, Trusted AI, and faster innovation, we uplift and empower our customers—and our customers' customers—to make better, more confident decisions. The world's top companies across every major industry trust Teradata to improve business performance, enrich customer experiences, and fully integrate data across the enterprise.

[Learn more at Teradata.com.](https://www.teradata.com)

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