



Bringing Artificial Intelligence to the Enterprise: Delivering Real Business Outcomes from Artificial Intelligence

After decades of promise and setbacks, Artificial Intelligence (AI) is experiencing a renaissance. AI is now solving problems in the enterprise with higher degrees of accuracy and in other cases, solving previously intractable problems.

AI represents a profound change for large enterprises. When done right, AI-first companies will experience a complete disruption to their current processes and thinking. By leveraging deep learning in conjunction with their unique enterprise data and business opportunities, AI leaders will transform industries. In fact, early adopters are demonstrating high-impact business outcomes in narrow, well-defined use cases, such as financial crimes prevention, manufacturing performance optimization, preventative maintenance, recommendation engines, and others.

However, the reality for most companies is that building AI solutions on their own that address their unique opportunities is not feasible.

Challenges abound, from determining appropriate use cases, technical challenges in working with a variety of open source projects and specialized hardware, to operationalizing and supporting autonomous decisions.

“Over the next decade, AI won’t replace managers, but managers who use AI will replace managers who don’t.”

– Harvard Business Review, 2017

Obstacles to Building AI Solutions

Enterprises are not sure where to start.

There is a great deal of hype surrounding AI, leading to inflated expectations on what AI can achieve. In other cases, the value that AI can bring to an enterprise is poorly understood, leading to inaction. The resulting lack of a shared AI vision makes it difficult to execute anything beyond an AI science experiment or point solution.

Building an AI platform requires new enterprise competencies.

Despite amazing breakthroughs in AI software and hardware, there remains poor interoperability of open source software components, the need to optimize new specialized hardware containing GPUs, curating high value data and blending with high velocity data, and doing this all at scale. Further, deep learning methods are a radical departure from traditional statistical techniques and machine learning techniques, thereby challenging even advanced data driven organizations.

Operationalizing AI requires rethinking of existing processes and operations.

A lack of best practices around AI analytic operations can slow down putting AI into action. Further, introducing autonomous decisions into processes that were designed for human decisions often fails to capitalize on the potential value from AI.

How Teradata Can Help

AI Strategy Service.

We can help identify and recommend a series of practical AI use cases that are aligned to the strategic goals of the enterprise. With Teradata Rapid Analytic Consulting Engagement™ (RACE™), we can help you quickly demonstrate proof of value to gain buy in from stakeholders.

AI Foundation Service.

We can help build and deploy a Deep Learning Platform based on leading open source projects, integrate enterprise data sources that fuel model training, and build AI models that deliver tangible business outcomes. Our experience has resulted in an array of proven code, design patterns, and best practices which are used to accelerate value and reduce implementation risk.

Taking Artificial Intelligence All the Way to the Bank

Danske Bank was dealing with increasingly sophisticated types of fraud. Only 40 percent of fraud was caught, and 99.5 percent of all cases investigated were not fraud. Think Big Analytics, a Teradata company, helped bolster fraud detection using AI.

By leveraging deep learning and industry experience, and deploying integrated open source software with graphical processing unit (GPU) appliances, Teradata helped Danske Bank operationalize prescriptive algorithms in complex, high-impact business processes, resulting in:



50% increase in fraud detection



60% drop in false positives



AI Analytics-as-a-Service.

We can help you design and oversee mechanisms to optimize and improve existing business processes using AI. Our team of world-class data scientists and engineers will manage an iterative, stage-gate process for analytic models from development to handover to operations.

To learn more about Teradata and Artificial Intelligence, contact us at Teradata.com/ai

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