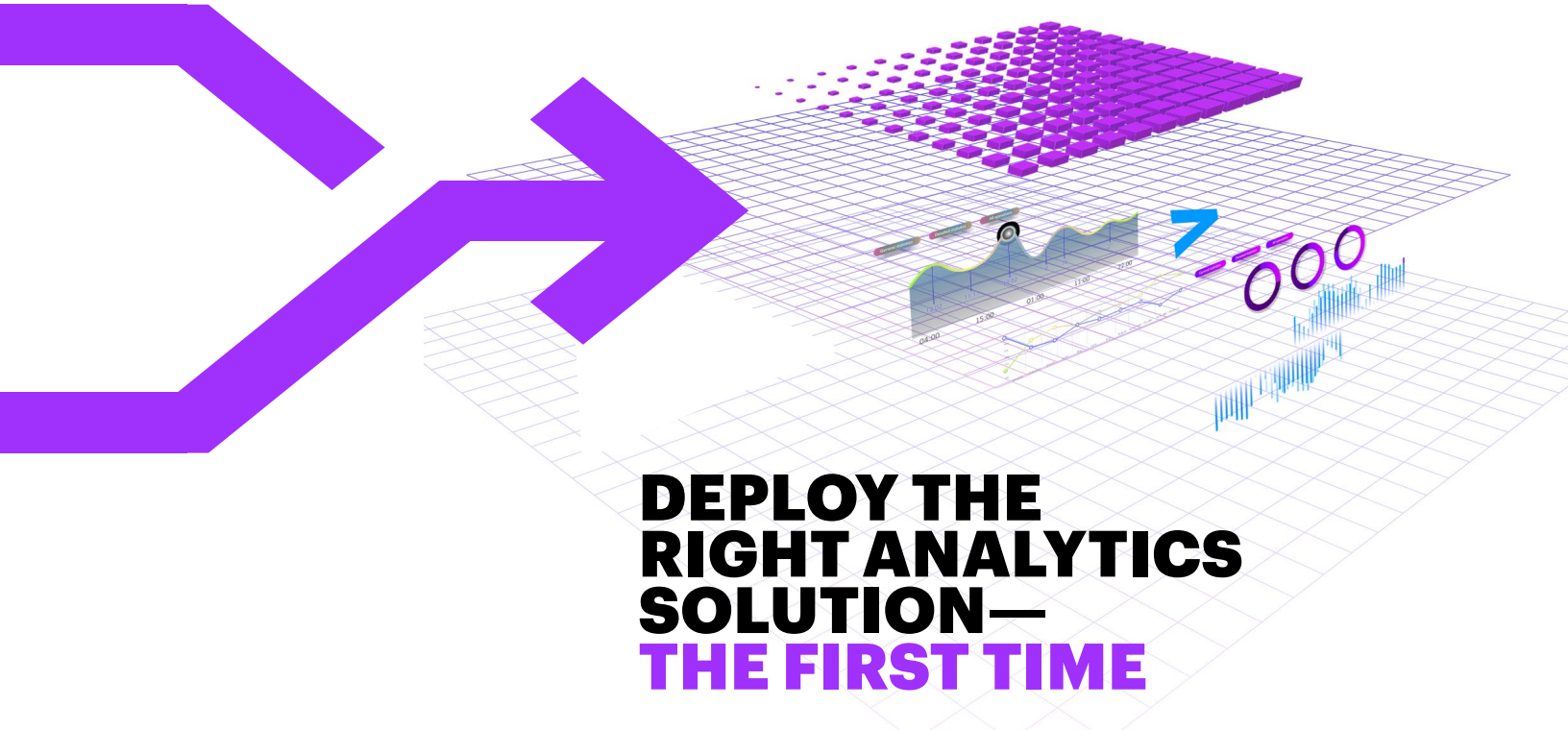


# REVEALING HIDDEN POSSIBILITIES

## ACCENTURE APPLIED INTELLIGENCE PLATFORM, POWERED BY INTEL<sup>®</sup> INFRASTRUCTURE SOLUTIONS

Providing a complete continuum of tools for analytics and artificial intelligence applications—helping you become a data-driven business and avoid the complexity of execution in today's data-driven world



## DEPLOY THE RIGHT ANALYTICS SOLUTION— THE FIRST TIME

### POWERING NEW AND BETTER OUTCOMES

**Using the latest generation of Intel® Xeon® Scalable processors, AIP improved data science performance at Multinational Chemical Company by 52%.**

This multinational chemical company initially deployed Accenture AIP to develop an analytics platform for predictive asset maintenance of its chemical plant. To improve performance of the platform, the latest Intel processors and software libraries were configured and installed. With the enhanced AIP platform, the plant experienced 52% faster performance in training models that could improve data science analysis of large sensor data. The models could also use unsupervised learning approaches to find patterns and forecast plant incidents before they impacted productivity.

Businesses across the globe are excited about the new possibilities created by the availability of massive amounts of data. Emerging analytics tools and capabilities provide an unprecedented ability to garner insights from this data—not just to predict outcomes, but also to prescribe actions to drive the outcomes of choice.

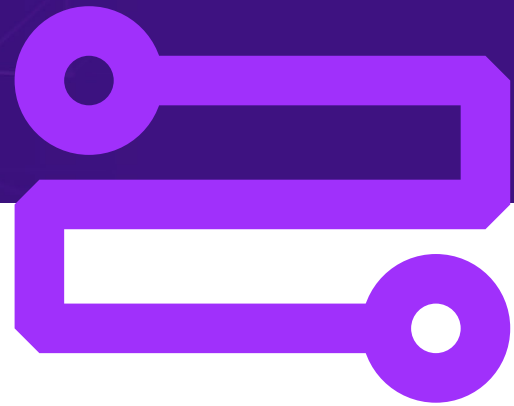
Successfully transitioning from the traditional analytics paradigm to a modern, flexible, “as a service” big data analytics platform delivers impressive results:

- Avoiding technical challenges and reduce the costs of deploying/maintaining analytics platforms
- Optimizing performance of data engineering and data science workloads
- Ensuring the end-to-end interoperability of analytics technologies at scale
- Guaranteeing data security and compliance with privacy regulations

While reaching these outcomes is the ultimate goal, getting there is a challenge. Accenture can help by offering the Accenture Applied Intelligence Platform (AIP), powered by Intel® infrastructure solutions. This highly flexible and fully tested platform includes a comprehensive set of analytics applications and tools guaranteed to interoperate. You can deploy one tool at a time or all at once—quickly, easily, and securely—with no wasted time, effort, or resources.

This next-generation analytics platform with embedded Artificial Intelligence (AI) and automation will empower your organizations to identify, capture, and capitalize on new opportunities in today’s data-driven world.

# DESIGNED-IN FLEXIBILITY



**Rather than offer a prescriptive solution to your data analytics challenges, Accenture AIP delivers a flexible platform that can be tailored to support myriad analytics workloads including but not limited to:**

- **Intelligent Customer Engagement**—Helping you provide excellent customer experiences at a decreased service cost per customer.
- **Intelligent Revenue Growth**—Creating a 360-degree view of customers so you can create new strategies for optimization across growth levers.
- **Intelligent Healthcare**—Speeding your time to value through innovative contracting, partnerships, and scalable AI- and analytics-powered services for patients.
- **Intelligent Supply Chain**—Increasing visibility within and across all supply chain functions to create a customer-driven, integrated operating model that offers more efficiency, transparency, and agility.
- **Intelligent Financial Crime Detection**—Streamlining operations and augmenting investigator performance to better detect threats and examine high case volumes quickly and thoroughly.

Using AIP's highly automated and flexible provisioning process, you can aggregate your data, slice it as appropriate, and then plug it into purpose-built models. The result—impactful business decisions based on complete, accurate data, enhanced through AI and automation.

Adding to AIP's flexibility is the ability to run the platform on-premises or in the cloud of your choice—public, private, or Accenture's—depending on your business requirements and operational model. Whichever deployment vehicle you choose, you receive the same high levels of AIP functionality and security.

With this fully operational solution, you can develop, test, and run your analytics applications. All the technologies used across the AIP application families have been fully tested to interoperate, and they are wrapped in security.

# ACCENTURE AND INTEL— EXTENDING DATA ANALYTICS TO THE EDGE

## Accenture and Intel® deliver better-together solutions that capitalize on their unique core competencies to drive business transformation.

Combining Accenture's expertise in designing solutions with Intel's expertise in building infrastructure components yields advanced analytics offerings that boost performance and enable businesses to process vast amounts of big data in real time.

In an effort to extend data analytics capabilities from edge appliances to the data center/cloud, Accenture and Intel worked together to integrate the Intel optimized technology stack into AIP. These technology optimizations include:

- **Hardware acceleration**—Utilizing the latest generation of Intel® Xeon® Scalable processors and solid-state drives (SSDs), together with optimized virtual machines (VMs), to achieve higher performance, better throughput, and lower latency.
- **Software**—Using Intel® optimized distribution of Python and Tensor Flow and Intel's deep learning toolkit (BigDL), AIP can improve performance of machine learning and AI use cases.



## Through close collaboration, **Accenture and Intel have optimized AIP's performance on all major cloud platforms.**

We run regular performance benchmarking tests to make sure AIP takes advantage of the latest and enhanced virtual machine types and hardware/software configurations on each cloud. This way, we can ensure optimized performance and provide cost-saving opportunities. Our AIP solution architects and automated solution workbench provide recommendations for the best configuration, based on these benchmarking exercises. Our most recent AIP optimization efforts using these optimized VMs and configurations provided significant improvements, compared to the previous version of AIP. Based on our latest performance optimization efforts using Intel's Cascade Lake Xeon processors:

### AVERAGE PERFORMANCE GAINS:

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**Data engineering workloads** **58%** performance gain in execution times

**Data science workloads** **25%** performance gain in model training execution times

**Data visualization workloads** **100%** performance gain in supporting more concurrent users with improved response times<sup>1</sup>

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### NOW IS THE TIME

If your organization is ready to take analytics to the next level of intelligence, performance, and flexibility, now is the time for Intel-optimized Accenture AIP. Whether you run your analytics workloads in the cloud, on-premises, or in a hybrid environment, your organization will benefit from up to **26% performance gains and up to 43% cost reductions using AI-driven, automation-backed Accenture AIP, and powered by Intel® infrastructure solutions.**<sup>2</sup>

### LEARN MORE

Contact your Accenture AIP Platform expert today to find out how you can deliver faster business insights and lower TCO.

Visit [accenture.com](https://www.accenture.com).

<sup>1</sup>Independent benchmarking results report conducted by AIP engineering team in May 2020

<sup>2</sup><https://github.com/intel-hadoop/HiBench> & bigdata bench frameworks