Analytics and data platforms

Fast-track deployments of modern data analytics architectures

Key benefits

- Implement a modern data platform to gather, organize, aggregate and explore your data, enabling AI/ML
- Increase accessibility and usability of your data
- Ingest and process structured, unstructured, batch and real-time data
- Rapidly leverage disparate data
- Modernize existing data infrastructure through flexible deployment models—cloud, on-premise and hybrid

The way we think about and access data fundamentally alters how we approach business problems and their solutions. Modern data tools and platforms eliminate time-consuming development projects and enable organizations to rapidly leverage data to drive insight.

The landscape of analytic products and services is crowded and complex. Every day, there are new technologies—automated machine learning (ML) platforms, high performance data stores and self-service visual analytic tools—across the analytic delivery pipeline to choose from. But organizations can struggle with selecting the right set of technologies to meet their business and mission objectives. Additionally, they must address how to integrate these tools into their ecosystem to address the complexity of the data they need to leverage and determine what to do with their existing data tools and platform investments.

Our solution

Perspecta helps organizations stand up analytics platforms that incorporate new data tools into their existing architecture by planning executable road maps and supporting their implementation to provide a dynamic data management framework.

We design, build and implement advanced data platforms that fast-track deployments of new technology and analytic applications with modern data architectures, right-sized solutions and deployments across cloud and tailored onsite solutions. We look for solutions to maximize return and minimize time, cost and risk. Our analytic and data platform services provide direct benefits which include:

- Planning a data architecture that rapidly integrates new sources, implements transformational architectures and provides detailed insight on advanced technologies dealing with big data

- Providing an approach that considers all aspects of hardware, software, business practices, governance, workflows and analytic methodology
- Accessing and making sense of the right information at the right time to deliver superior business outcomes
- Reducing implementation risks and costs while shortening production deployment time
- Enabling greater predictive capabilities for driving strategies and decisions

Our approach to analytics and data platforms delivers industry-leading, end-to-end data integration, architecture, management and analytic support for defense and intelligence customers. We develop and enable interfaces that fuse geospatial information, signals intelligence, foundation information, text data and publicly available information including open source intelligence and social media. Our approach to analysis as a service leverages open data platforms to deliver insights to customer missions.

Analytics and data platform architecture

We provide analytics and data platform architecture services to assist in designing, building and implementing integrated data platforms. We bring best practices in analytic applications and data workload optimization to address your analytic requirements. Our big data and analytics experts are skilled in modern analytic architectures and armed with Perspecta's analytic framework accelerators to integrate proven technologies into your data ecosystem. By assessing your unique challenges, we can determine the best approaches for mapping existing and new data workloads to enhance mission value and rapidly adapt to changing business priorities. We simplify the implementation process and enable a rapid path to start with what matters most.

Integrated streaming analytics platform

Perspecta's modern streaming analytic framework, based on pre-integrated components that are flexible and scalable, addresses the need to rapidly integrate, correlate, condition and leverage data from multiple sources within an ecosystem while naturally accommodating growth and change. Our architects work together with our customers to design a unified architecture that is open, modular and microservices-based. This flexible architecture allows an organization's analytic ecosystem to evolve within an agile process, delivering frequent

improvements that reduce the time to gather requirements and the costs of getting a project off the ground. We provide full-service enablement with accelerators for deployment, testing and integration in the cloud, on-premise or in hybrid environments, so massive amounts of diverse data types can be easily managed with low initial cost, reduced risk and flexible scale-up capability.

HealthConcourse—Perspecta's digital health platform

Perspecta's digital health platform, HealthConcourse, emphasizes data interoperability. HealthConcourse is a standards-based and open-technology-driven platform that was built to connect health care data producers, consumers, services and storage in a highly scalable, cloud-agnostic infrastructure. Data across health care systems does not consistently conform to industry data model, data exchange and medical terminology standards. To address these challenges, HealthConcourse hides the complexities of the underlying data architecture and seamlessly aggregates fragmented data, normalizing and enriching it so the information can be visualized and used in patient diagnostics.

Why Perspecta

Our focus at Perspecta is to help our customers bring analytics tools together into a platform that enables rapid delivery of value while aligning with the needs and objectives of the organization. We leverage existing infrastructure, augmenting capabilities while avoiding the cost and time of rebuilding components that already work. We provide:

- Expertise in designing and implementing some of the largest data platforms in government
- Secure, streamlined entry to the public cloud with proven methods and enterprise integration blueprints
- Advanced data platforms based on benchmarked data patterns and our engineering expertise
- Flexible and agile delivery of analytic tools and platforms at enterprise scale
- Open system architecture that allows for frequent incorporation of technology advancement through integration
- Continuous integration using a structured delivery pipeline and development methodology based on agile sprints and a proven combination of commercial and open source tools