



PYTHIAN ENTERPRISE DATA PLATFORM SERVICE

DRIVING BETTER BUSINESS OUTCOMES WITH DATA

HIGHLIGHTS

- Brings data lake and data warehouse together on a single platform
- Handles structured, unstructured and semi-structured data
- Ingests data from any source: database, API, SaaS, CSV, JSON, streaming
- Supports both batch and real-time
- Enables scheduling and orchestration
- Automates data transformation
- Provides data cleaning and management
- Enables model development and schema management
- Supported by Pythian's 24/7 monitoring of pipeline SLAs

A data platform is the foundation of today's enterprise analytics program and the cloud is where it belongs. Whether you're moving your analytics data to the cloud or starting out fresh in the cloud, Pythian experts can design and custom build a data platform faster, taking full advantage of the elasticity and scalability of today's cloud services.

Our Enterprise Data Platform (EDP) service brings together data and cloud experts with a flexible, templated and automated approach to creating a customized scalable data platform on Google Cloud Platform (GCP), Microsoft Azure or Amazon Web Services (AWS). This cloud-native analytics infrastructure solution can cost-effectively ingest, integrate, transform, serve, and manage an almost unlimited amount of data of any type, and will be tuned to facilitate your unique analytics outcome goals—whether they are self-serve analytics, Machine Learning (ML), or application integration.

HOW IT WORKS

Your cloud-certified Pythian EDP team uses proven methodologies and reference architectures, automation and templates so you get your EDP right the first time, on time, so you can start seeing value from your data faster.

We help you every step of the way, from planning, implementation and management of your EDP solution.

PLAN

Organizations that want to become data-driven, or to take advantage of emerging opportunities like ML and AI, need a data strategy. A data strategy underpins everything from your data platform architecture to methodologies to the storage and security of data. Because your strategy acts as a common reference for

developing your analytics roadmap and plan, it's important to get it right from the start.

Pythian business analysts, data experts and data architects can help you:

- develop your data platform strategy, help you prioritize your use cases and map your desired outcomes to the data model you need to make this possible
- mitigate future risks with advanced planning that accounts for the common challenges associated with managing and scaling your data—from schema evolution to data lineage to data quality tracking to cloud cost optimization
- develop the best reference architecture to meet both today's and tomorrow's needs, ensuring your EDP can grow with you

These offerings can be delivered as fixed price assessment and planning services or as a consulting engagement, charged by the hour.

IMPLEMENT

Take advantage of our more than 20 years of data experience. By implementing your data platform with Pythian, you can focus on insights and results, instead of infrastructure and pipelines. Our experts help you:

- design and build your infrastructure as code (IaC) with CI/CD pipelines. Our DevOps experts help you take advantage of all the automation and innovation the cloud has to offer, which means you need minimal support when your system goes live
- Migrate from your legacy data warehouse to a data platform that delivers more use cases to more users and systems
- Ingest data from any source, perform transformations to deliver your analytics-ready data to your data warehouse and data mart, or enable users to access raw data from a data lake
- Build your pipelines. Our data engineers will also help you operationalize them, using DataOps/MLOps practices needed to manage your pipelines for the long term
- Put your data to work. Our analytics experts help you with everything from creating your data models to creating a use case-specific data mart in a cloud data warehouse to data orchestration to make your data available to other systems or Pythian Data scientists - from model development to operationalizing the pipelines once the

models are live, to ongoing model management, our data scientists are yours to use

- anticipate and address the challenges associated with managing and scaling your data at scale - from schema evolution to data lineage to data quality tracking to cloud cost optimization
- apply DataSecOps practices to ensure you have peace of mind
- deliver a fully customized EDP that eliminates data silos and organizes any and all data in support of your goals. And we'll manage it for you so you can focus on helping your business use the data

Additional Implementation Services:

- **Want to get up and running fast?** We can have your EDP set up, three data sources ingested and your first use case data model created in 90 days if you start with our KickStart MVP
- **Data warehouse migration** - Want to replace your on-premise data warehouse with an EDP? We have a three-step program that will make the transition seamless.
- **Consulting by the hour:** Looking to do something new with your EDP? You can call upon our experts to help. Consulting services can include data strategy, data management, data modeling, data integration, visualizations and machine learning.

MANAGE

Pythian's cloud-native Enterprise Data Platform Support and Continuous Transformation services are sold as an ongoing engagement with our clients. Our services delivery model combines a monthly subscription to take care of maintenance needs, and the option to easily add limited duration projects for additional value-added services. Each client creates a customized mix of services chosen from the list below.

Typical services include:

- Infrastructure Monitoring and Alerting - ongoing 24/7
- Pipelines Monitoring and alerting - ongoing 24/7
- Security - ongoing 24/7 and periodic as mutually determined
- Data Management
- System Optimization
- Cost Optimization

ENTERPRISE DATA PLATFORM DELIVERS

Having your cloud-native enterprise data platform in place opens a world of opportunities to use your data to drive business value like never before. Here are just a few of the benefits you can expect from your EDP solution.

SELF-SERVICE ANALYTICS AND MACHINE LEARNING

Your EDP solution enables self-service analytics for both technical and business users including visualizations and supports BYOA (bring your own analytics tools) as well as machine learning, advanced and predictive analytics at scale. It provides easy access to both structured and unstructured data and integrates easily with available cloud data science services making it easy for machine learning developers, data scientists, and data engineers to take their ML projects to production and deployment quickly and cost-effectively.

COST EFFECTIVE AND SCALABLE

EDP reduces your cost-per-answer and time-to-answer. It's customized for your data, and your particular use cases to address your immediate analytics requirements, and to grow as your needs evolve. In other words, you can start with just one business need or question, then expand the service as required.

CENTRALIZED MANAGEMENT

No more data silos! Your multi-source integrated data is always up to date, so your entire organization is consistently working from a single platform. This means everyone in your company is always working from a single source of truth using the analytics tools of their choice.

DATAOPS AND MLOPS

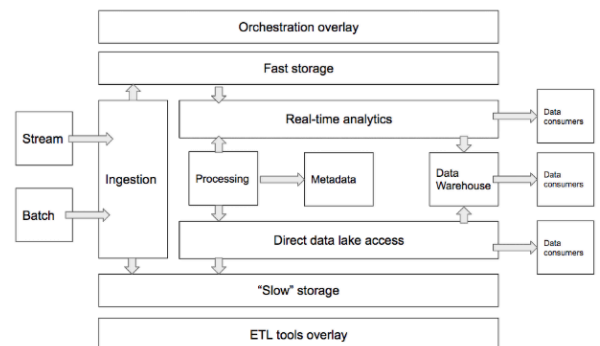
EDP helps you adopt a DataOps program so you can better align your data management with your business goals. By enabling you to automate repeated processes and building business rules into your custom data platform, EDP allows you to streamline data management practices and processes that improve the speed and accuracy of analytics, data quality, integration, and data model deployment and management. MLOps is a set of practices to streamline collaboration between data scientists and the operations team. Pythian provides management and orchestration services to help you manage the lifecycle of your machine learning model training and deployment workflows for more reliable models and better results.

YOUR VERY OWN LEAGUE OF PYTHIAN EXPERTS

In addition to the Pythian team of data engineers, analysts, developers, DevOps and operations experts who implement and manage your data platform, we assign dedicated Pythian experts to lead your project, including:

- A project manager: From the beginning of the project, your assigned project manager continually ensures your needs are met throughout the entire engagement, setting the schedule, working with the team to define the deliverables, then regularly capturing and communicating status and actions.
- A senior data architect: The data architect ensures all requirements are fully understood and scoped and that data sources and data access is clearly defined.
- A team lead: The team lead handpicks your team and manages the work to make sure that everything is done well and fully tested.

Typical High-level Data Platform Architecture



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ABOUT PYTHIAN

Pythian excels at helping businesses around the world use data and the cloud to transform how they compete and win in the data economy. From cloud automation to machine learning, Pythian leads the industry with proven innovative technologies and deep data expertise. For more than 20 years Pythian has built its reputation by delivering solutions to the toughest data challenges faster and better than anyone else.

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V01-072019-NA

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