

PYTHIAN SOLUTIONS FOR GOOGLE CLOUD

# Smart Analytics— Pythian Enterprise Data Platform Service on Google Cloud



## Drive better outcomes with data faster and easier with Pythian, Google Cloud Data Management Partner of the Year.

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 Google Cloud or starting out fresh in Google Cloud, Pythian experts can design and build your data platform faster taking full advantage of the elasticity and scalability of Google'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. This Google-native analytics infrastructure solution allows you to 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, ML, or application integration.

## HIGHLIGHTS

- Brings data lake and Google BigQuery 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 streaming data
- Enables scheduling and orchestration
- Automates data transformation
- Provides data cleaning and management
- Enables model development and schema management
- Supported by Pythian's 24/7 continuous transformation and support teams
- Facilitates MLOps and DataOps

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 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

Our team is yours to use—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 BigQuery data mart, or enable users to access raw data from a data lake
- Build your pipelines using Google PaaS. And our data engineers will also help you operationalize them, using DataOps/MLOps practices to manage your pipelines at scale, and 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 BigQuery for business users, to data orchestration to make your data available to other systems, to developing a machine learning model and/or operationalizing it
- Anticipate and address the challenges associated with managing and scaling your data at a scale—from schema evolution to data lineage to data quality tracking to cloud cost optimization

## 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 less than 30 days with our [Google Cloud Analytics Quickstart](#)
- **Data warehouse migration**—Want to replace your on-premise data warehouse with an EDP/BigQuery? We have a three-step program that will make the transition seamless.
- **Consulting by the hour:** Looking to do something new with your existing 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 & Optimize

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:

- InfraOps—DevOps & DevSecOps for opviz, monitoring and maintenance—24/7
- DataOps—Pipeline monitoring, alerting, issue resolution, change management—24/7
- SecOps—ongoing 24/7 and periodic as mutually determined
- Data Management—modelling, PII, data quality, governance
- FinOps—optimizing costs and consumption, ROI on platform changes
- Senior Advisory & Strategic Consulting with Senior Experts—typically quarterly

## Enterprise Data Platform Delivers

Having your Google-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 Google Cloud 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

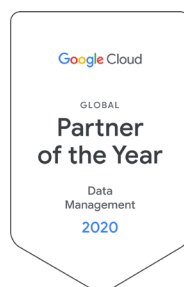
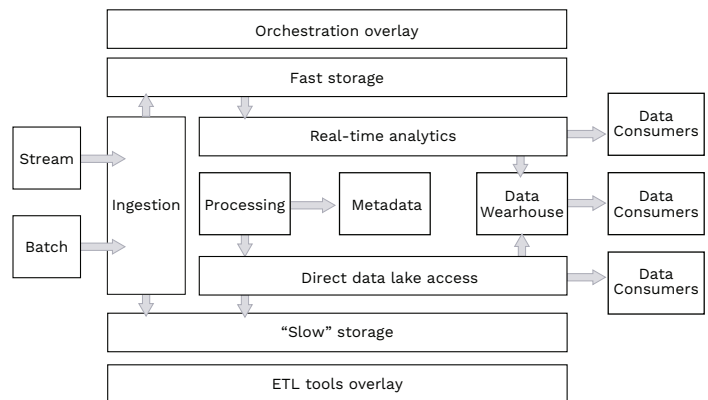
EDP helps you adopt a DataOps program so you can better align your data management with your business goals. By enabling you to automate repeated processes and building business rules into your custom data platform, EDP allows you to streamline data management practices and processes that improve the 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

We work as an extension of your team using agile or waterfall methodologies—depending on your preferences. In addition to the Pythian team of Google-certified 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, sets the schedule, works with the team to define the deliverables, then regularly captures and communicates 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 ongoing feature releases.

## Typical High-level Data Platform Architecture



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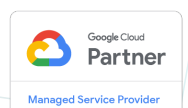
### ABOUT PYTHIAN

Founded in 1997, Pythian is a global IT services company that helps organizations transform how they compete and win by helping them turn data into valuable insights, predictions and products. From cloud automation to machine learning, Pythian designs, implements and supports customized solutions to the toughest data challenges.

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Pythian