

# Data Science Workshop for Google Cloud



Using data science to achieve business value is becoming pervasive today. Whether deployed through chatbots to enhance customer experience, anomaly detection and alerting to improve response times, or demand forecasting to ensure actions are taken proactively, machine learning (ML) is being leveraged in innovative ways that help businesses and their customers achieve higher success and satisfaction. No matter how mature your data science capabilities may be, Pythian's experts can accelerate your time to value with valuable advice and actionable plans. Our Data Science Workshop for Google Cloud can help set you on the right path to becoming more data driven. The Data Science Workshop for Google Cloud is a boot camp designed and delivered by Pythian's Google Cloud AI and ML experts to identify the optimal artificial intelligence (AI) and machine learning (ML) use cases for your business needs, categorize use cases with higher potential ROI, define success criteria and KPIs, and determine data requirements.

Start with Pythian's Data Science Workshop for Google Cloud if:

- You are aware of the power of Google Cloud's ML and artificial intelligence (AI) in a general sense but have little (if any) experience and aren't sure how it can be leveraged to help your business.
- You have one or more business problems you believe could be solved by an ML solution, but do not have the qualified resources to make that determination.
- Your business produces data, but you are not sure how to get insights or make predictions from that data.
- You have tried a few ML projects but they haven't panned out and you suspect they were the wrong business problem.
- You are not sure if your data is appropriate, or is in the appropriate state, to be used in ML models and applications.

Pythian's Data Science Workshop for Google Cloud is an easy way to develop, assess, and rank various ideas and use cases you believe would be suitable candidates.

"Developing the deepest proficiency in cloud services and technologies like machine learning and artificial intelligence enable partners like Pythian to deliver significant, long-term value for customers." – DERRICK THOMPSON, Global Head of Partner Differentiation, Google Cloud.

Through this simple two-week Workshop, you can get answers to where you can apply data science to get business outcomes.

## **Become Data Driven with Machine Learning and Advanced Analytics—in Two Weeks.**

### **Our Data Science Workshop for Google Cloud provides answers**

#### **Questions you may have around ML and Advanced Analytics:**

- Are business problems well-defined and does the data exist to make an ML solution possible/feasible?
- Do the identified business problems translate to an ML solution, and is ML an appropriate solution?
- Which business problem/use case has the best chance of returning the most value?
- Do you have the right data? Which privacy obligations must you adhere to?
- Is there bias in the approaches taken?
- What data may be required in the future?
- What will be required in terms of resources and time?
- Given all the above, is the project feasible?

#### **Next step: Getting Started with the Data Science Workshop for Google Cloud**

As the first step in creating a holistic data science program in your organization, we will conduct a business use case and feasibility analysis through Pythian's Data Science Workshop for Google Cloud.

#### **Within two weeks, we will**

- Conduct a high value evaluation of potential use cases.
- Understand how businesses are leveraging Vertex AI, Vision AI, Auto ML, and other Google Cloud services to solve business problems.
- Identify the use cases specific to your business, which are the prime candidates for the ML/AI application. Prioritize the use cases based on ROI.
- Discuss the potential use cases in depth to understand business processes and the overall impact of introducing ML solutions.
- Understand current and future data available to support the use cases and feasibility for ML application.

#### **Key outcomes**

- A report with ML use cases categorized by higher potential ROI and business value.
- Minimize risk through definition of criteria and KPIs and determine data requirements.
- Recommendations for subsequent ML projects with a high level solution approach.

**Example outcome**

Use Case	Potential Value	Weighted Risk Reward Ratio	Weighted total risks	Potential Value	Current Solution	Data Availability	Data Quality	Modeling Complexity	Data Fit	Business Fit	Technology Fit	Implementation Efforts
	***	0.95	1.90	2	2	3	1	2	1	1	2	3
	****	0.68	1.70	2	2	1	2	2	1	1	3	1
	*****	0.75	2.25	2	3	2	3	2	2	1	3	1
	****	0.60	1.50	2	3	2	1	1	1	1	1	3
	***	0.95	1.90	2	2	3	1	2	1	1	2	3
	*****	0.73	2.20	3	2	2	3	3	1	1	3	1
	****	0.74	1.85	3	3	1	3	1	1	1	2	1
	***	0.90	1.80	2	2	3	2	2	1	1	3	1
	***	0.63	1.25	1	2	1	2	1	1	1	1	1

With Pythian's focus on achieving business outcomes, all stakeholders in your initiative will realize benefits:

- Executive leadership:** As an organizational leader who is responsible for crafting a technology roadmap for data-driven solutions, you can get started in evaluating how to best achieve optimal business outcomes through ML and advanced analytics.
- Business user/Domain expert:** Leverage a proven expert-led methodology to evaluate a specific project or idea about where you can get started with ML.
- Analytics or data user:** Validates specific data outcomes so you can arrive at solutions.

## Get on the right path to getting business outcomes through advanced analytics.

## Why choose Pythian as your modern cloud analytics partner?

### Unmatched expertise—from ETL to ML and everything in between

Your analytics journey requires a broad range of skills and experience. Pythian's 25 years of proven expertise in data and data strategy, database and data warehousing architecture, artificial intelligence, machine learning, and other advanced analytical and data sciences will help you combine data and technology into innovative and impactful business solutions.

### A flexible partner for the entire journey

Your data journey doesn't end with a Data Science Workshop for Google Cloud. We'll help you at every point on your data journey, from evaluating where best to apply ML to progressing through the stages of maturing advanced analytics from POC, MVP, productional, and operational. We are here to support your organization in turning your data into insights and predictions, help with data governance and security, and keep your data flowing 24 hours per day, 365 days per year.

## Highly cost-effective

A system is more than the sum of its people. From the push-button deployment of integrated infrastructure to dynamic schema evolution to dashboards that monitor and alert on anomalies, Pythian's team brings a technology portfolio to enhance and expedite your data journey cost-effectively.

## Exceptional support

Every Data Science Workshop for Google Cloud has many moving parts, so to keep things moving smoothly and efficiently, Pythian has coupled proven methodologies with a dedicated, experienced project manager for every project to ensure delivery of the agreed-upon outcomes at the agreed-upon time.

## Synergistic services

Pythian's ability to help doesn't stop once your Data Science Workshop for Google Cloud is up and running. You can seamlessly extend your Pythian relationship to include the management of your analytics platform with Pythian's DataOps managed service or Pythian's FinOps cloud cost-optimization service.

## About Pythian and Google Cloud.

As a premier Google Cloud Managed Service Provider (MSP) and Specialization Partner, Pythian provides end-to-end consulting services for all Google Cloud solutions, with 25 years of experience in infrastructure, analytics and database. Google Cloud combined with Pythian's deep analytics services—based on our experience in data validation, data modeling, visualizations, big data services, IoT and machine learning—can help you get better ROI on your data faster.

Pythian also has multiple specializations—Google's highest technical designation—including Data Analytics, Machine Learning, Infrastructure and Data Management. And, as a certified Google Cloud MSP, we've delivered thousands of professional and managed services data and applications projects in the hybrid and multi-cloud world.

## Get started with Pythian

If you'd like to unlock the ability to quickly develop, assess, and rank data-driven solutions through Pythian's Data Science Workshop for Google Cloud, email us at [info@pythian.com](mailto:info@pythian.com) to get started.



[linkedin.com/company/Pythian](https://www.linkedin.com/company/pythian)

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Contact us at +1-866-798-4426 or [info@pythian.com](mailto:info@pythian.com)

## 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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