AI/ML Design & Plan Services

Using Artificial Intelligence and Machine Learning (AI/ML) to achieve business outcomes is becoming imperative. Whether it is deployed through chatbots to enhance customer experience, anomaly detection and alerting to improve response times, or demand forecasting to ensure actions are taken proactively, AI/ML services can be 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 AI/ML Design & Plan services can help set you on the right path to becoming more data driven. The AI/ML Design & Plan service is a Data Science boot camp designed and delivered by seasoned Pythian AI and ML experts to identify the optimal AI/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 AI/ML Design & Plan services if:

- You are aware of the power of ML and 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 AI/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 AI/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 AI/ML models and applications.

Key Outcomes:

- A report with AI/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 AI/ML projects with a high level solution approach.

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Pythian's AI/ML Design & Plan service is a methodical way to develop, assess, and rank various ideas and use cases you believe would be suitable candidates.

Through this simple two-week Design & Plan service, you will get answers to where you can apply AI/ML to get business outcomes.

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

Our AI/ML Design & Plan service provides answers

Potential questions you may have around AI or ML:

- Are business problems well-defined and does the data exist to make an AI/ML solution possible/feasible?

- Do the identified business problems translate to an AI/ML solution, and is AI/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 AI/ML Design & Plan service

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 AI/ML Design & Plan service.

Within two weeks, we will

- Conduct a high value evaluation of potential use cases.

- Understand how businesses are leveraging AI/ML to solve business problems.

- Identify the use cases specific to your business, which are the prime candidates for the AI/ML 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 AI/ML solutions.

- Understand current and future data available to support the use cases and feasibility for AI/ML application.

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Example outcome (screenshot below)

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

- **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 AI/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 AI/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.

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Why choose Pythian as your modern cloud analytics partner?

Unmatched expertise—from ETL to AI/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 the AI/ML Design & Plan service. We'll help you at every point on your data journey, from evaluating where best to apply AI/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 AI/ML Design & Plan service 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 AI/ML Design & Plan service is up and running. You can seamlessly extend your Pythian relationship to include the management of your analytics platform with Pythian's Analytics Platform managed services or Pythian's FinOps cloud cost-optimization service.

Get Started with Pythian

If you'd like to unlock the ability to quickly develop AI/ML in areas your industry is moving toward, like Generative AI (GenAI), get Pythian services working for you. Our AI/ML services are broad and include AI/ML Design & Plan, AI/ML Proof of Concept (POC), moving through to AI/ML Ops and more. Our approach allows you to leverage the power of large language models (LLMs) and GenAI capabilities where applicable. Email us at info@pythian.com to get started.

About Pythian

Founded in 1997, Pythian is a data and analytics 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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Be
Data Bold