AI/ML Proof of Concept (POC)

Today, many organizations are turning to data science to achieve greater business value. Innovative uses of Artificial Intelligence (AI), and machine learning (ML) and other advanced analytics, like Generative AI (GenAI), are helping businesses and their customers achieve higher success and satisfaction. "By 2025, Gartner expects generative AI to account for 10% of all data produced, up from less than 1% today" (Gartner, 2021). Examples of these data science applications include customer experience-improving chatbots, anomaly detection for better response times, and demand forecasting for improved decision-making. Pythian's experts can accelerate your time to value with a proven framework and proof of concept (POC).

The framework for Pythian's data science structure first introduces our Design & Plan Phase, then initiates implementation through our Model & Iterate Phase, and finally operationalizes through our Deploy & Operate Phase. This framework provides you clarity on where best to start applying data science and how to move to implementation quickly and begin gaining insights.

When considering your approach, the ability to see the framework and plan is valuable. Our **AI/ML POC** allows you to assess and select a use case of high ROI and progress into building a model in an iterative manner whether it is GenAI related, or other.

Advance your machine learning initiatives with the highest potential for ROI in 8 weeks

The AI/ML POC helps you select an AI/ML use case with the highest ROI and business value. With the right tools and an iterative process of multiple sprints, you can start model building, leveraging existing pre-built, pre-trained models where applicable within eight weeks.

Key Outcomes:

- Align and select an AI/ML use case for implementation.
- Attain a functional model and framework to propel iterative progress.
- See the progression of the model into a scalable proof of concept.

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Our AI/ML POC includes:

1. **Design & Plan Phase (2 weeks)**

- Conduct an evaluation of potential high-value 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.

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

2. **Model & Iterate Phase (6 weeks)**

- Divide the modeling and iteration into two-week sprints, with extended options for quickly improving model accuracy and deploying for consumption by application and business teams.

- Execute on building a model with prioritized features specific to a targeted business outcome with KPI measurements.

- Multiple iterations of model development, training and scaling.

- Integrate existing pre-trained large language models (LLMs) that have GenAI capabilities where applicable.

- Demos for each sprint.

- Documentation of the model and code in a GitHub repository.

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

- **Executive leadership:** As an organizational leader responsible for crafting a technology roadmap for data-driven solutions, you can get started on the right AI/ML initiative and start seeing outcomes.

- **Business user/domain expert:** Land on business outcomes faster and in a more focused manner, aligned with strategy and business direction.

- **Data scientist/analytics user:** Have appropriate tools to further your data science projects and remove prior barriers.

Why choose Pythian as your AI/ML 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, including GenAI, machine learning, and other advanced analytics will help you combine data and technology into innovative and impactful business solutions.

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

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A flexible partner for the entire journey

Your data journey doesn't end with an AI/ML POC . 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, production and operations. 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 POC has many moving parts. 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 within the committed time frame.

Synergistic services

Pythian's support doesn't stop once your AI/ML POC is up and running. Let us effectively manage your analytics platform with our AI/ML Ops, FinOps cloud cost-optimization or DataOps managed services.

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Get Started with Pythian

If you'd like to unlock the ability to quickly develop AI/ML in areas the industry is moving in like GenAI, get Pythian services working for you. Our AI/ML services are broad and include AI/ML Design and Plan, AI/ML POC, moving through to AI/ML Ops and more. Our approach allows you to leverage the power of 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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