

# MACHINE LEARNING OPERATIONS

A proven system for implementing end-to-end lifecycle management for ML solutions





# Navigating the complexities of Machine Learning

We assist customers in understanding the intricacies of ML, identifying the right strategies and technologies, and implementing solutions tailored to their specific needs.



## Primary challenges

Operationalizing ML projects require more skillsets, and Data science teams often lack familiarity with engineering and operational practices essential for production environments.



## Ideal solution

Homogeneous systems with enhanced scalability process to build, deploy, monitor, and manage various AI models. It helps upskill and uplifted human functions.



## Desired outcomes

Increase in value from trusted AI models to do more with less \$, 30-40% reduction in go-to-market time for firms, and 25-35% reduction in development & operationalization costs.



# MLOps Capabilities via Fractal

Harness the expertise of Fractal Analytics and Azure ML to effectively transform your model lifecycle management process within a couple of months through AI integration.



## ML Governance

ML Governance enables scalability by establishing standardized processes, governance frameworks, and automation for developing, deploying, and maintaining machine learning models at scale.

## MLOps

MLOps practices drive operational efficiency by automating complex and time-consuming tasks involved in the machine learning lifecycle, optimizing resource allocation and reducing manual efforts.

## Flexible Engagement

Comprehensive data sources, enabling efficient data management and access to cutting-edge advancements.



# Fractal, MLOps Accelerator, and Azure

This offer includes dedicated resources to support the model management lifecycle, as well as a repeatable pattern of practice delivered through an Azure Managed Application. This enables simpler, easier model management.



## Capabilities 1

Create reproducible ML pipelines, create reusable software environments for training and deploying models, and capture the governance data for the end-to-end ML lifecycle.

## Capabilities 2

Notify and alert on events in the ML lifecycle, Monitor ML applications for operational and ML-related issues.

## Capabilities 3

Achieve governance across assets, accelerate collaborative MLOps across workspaces, Efficiently manage the entire machine learning lifecycle.



# Customer success: ML Ops Accelerator Transformed Model Deployment Process

ML Ops Solutions have significantly accelerated our time-to-market for deploying ML models. The streamlined processes, version control, and continuous integration capabilities have eliminated bottlenecks to improved collaboration between our technical teams. Now we can rapidly deploy and iterate on models to ensure a competitive edge.

## ► Business Challenges

The customer had an ML model for spot-bid pricing but lacked a formal process. They aimed to pilot the model and enhance their analytics platform to incorporate Data Science and MLOps capabilities.

## ► Our Solution

Developed a flexible MLOps infrastructure for spot-bid, leveraging Azure Databricks and Azure DevOps for automated CI/CD pipelines, collaborated with engineering teams to seamlessly integrate.

## ► Rapid Iteration

Built a foundation for MLOps that supports future models, Automated delivery of model recommendations through existing enterprise systems, and introduced the role of ML Engineer to coordinate between business and IT.



# Unlock the Full Potential of Your Machine Learning Projects

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