MLOps Foundations on Azure

Operationalize machine learning across your entire business.
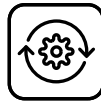
Companies are realizing the value of using machine learning (ML) models to drive better outcomes for their businesses. While harnessing the predictive power of their data with ML models to remain competitive is becoming more critical to business operations, 60% of these models never make it to production.

Successfully operationalizing AI/ML across the organization delivers a secure, trackable, testable and repeatable way to create, train, deploy and update ML models across different environments.

Business Challenge

Whole lifecycle could take months with 30+ manual steps to deploy machine learning models from development to production

Model degrades naturally over a long period of time and must be maintained separately in order to avoid data quality issues

Configuration issues from models running across multiple environments with various versions and datasets

Manual handoffs between various teams and no UI tracking system

Business Outcome

Automated model deployment across environments, reducing the lifecycle to just days using Azure MLOps continuous integration and delivery (CI/CD) pipelines.

Reproducibility of models and predictions that allow data scientist to easily duplicate models and model outcomes in many environments.
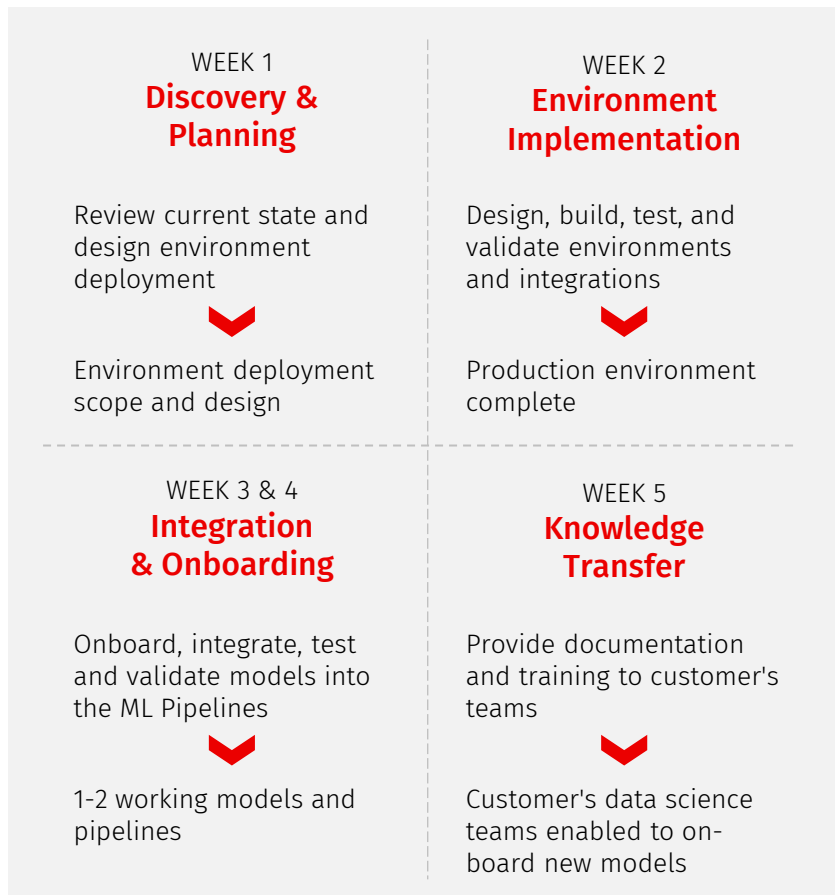
Reusability by standardizing the model development environment for your data science teams and optimizing multi-environment deployments.

Manageability with a platform for collaboration between data teams and model lineage for governance and regulatory compliance.

But not all businesses have these competencies in house – that's where Rackspace Technology can help.

We work with you to determine the technical and business requirements of your project, architect a solution that taps the power of AI & ML solutions in the cloud and deploy a model factory framework to meet your model development, operations and compliance requirements.

Fast track operationalizing the model development lifecycle with our MLOps Foundations 5-week accelerator and proven Model Factory Framework so your team can build new revenue streams, increase efficiency and deliver incredible experiences.

WEEK 1
Discovery & Planning

Review current state and design environment deployment

⌄

Environment deployment scope and design

WEEK 2
Environment Implementation

Design, build, test, and validate environments and integrations

⌄

Production environment complete

WEEK 3 & 4
Integration & Onboarding

Onboard, integrate, test and validate models into the ML Pipelines

⌄

1-2 working models and pipelines

WEEK 5
Knowledge Transfer

Provide documentation and training to customer's teams

⌄

Customer's data science teams enabled to on-board new models

What is the Rackspace Model Factory Framework?

The Model Factory is a machine learning operations framework built on Azure using open-source tools that enable rapid development, training, scoring and deployment of models.

Rackspace Model Factory Framework Features

- Experiment tracking
- Project packaging
- Deploy models from anywhere
- Tracking UI
- Model storage
- Support major ML frameworks
- CI/CD integration

ML Model Integration and Pipeline Development Capabilities

- Reproducible ML pipelines
- Reusable code
- Easy source control
- Performance check
- Team collaboration

Rackspace Model Factory Framework delivers automation at scale

Process Automation

Fully Automated CI/CD Pipeline Deployment Process (Jenkins/Github/Code Pipeline)

Azure Tooling

Utilizing the power of Azure infrastructure and orche-stration tools

Cloud Agnostic

Register, package, train and deploy models from anywhere (cloud)

Version Control

Project packaging for easy source control. Resolves repro-ducibility/reusability issues

Gold
Microsoft Partner
Azure Expert MSP
Microsoft

Cloud Platform
DevOps
Application
Development
Data Platform
Data Analytics

2,300+ Microsoft Certifications Worldwide

300+ Microsoft Azure Certifications

17 Azure Competencies

5x Microsoft Partner of the Year

Gartner
Leader
Magic Quadrant for Public Cloud Infrastructure Professional and Managed Services, Worldwide

Get started with a COMPLIMENTARY Discovery Session to learn how modern analytics platform can accelerate your path to becoming a truly data-driven organization.

rackspace technology. | **Microsoft**