

MICROSOFT OFFICIAL CURRICULUM

Databricks

# Advanced Machine Learning with Databricks

Program aligned

Advanced Databricks ML program aligned to professional-level machine learning engineering across scale, automation, environment management, and production operations.

Advanced AI & Machine Learning (Databricks)

Advanced

Databricks Data Intelligence Platform

DURATION  
**2 days**

LEVEL  
**Advanced**

FORMAT  
**Virtual, On-site, or Hybrid**

CERTIFICATION  
**Databricks Certified Machine Learning Professional**

## AUDIENCE PROFILE

### Built for these roles

Designed for experienced machine learning practitioners who need to implement scalable, monitored, production-grade ML systems using advanced Databricks platform capabilities.

## OVERVIEW

### Executive overview





Aligned to the Databricks Certified Machine Learning Professional track, this program focuses on designing and operating enterprise-scale machine learning systems on Databricks. It emphasizes scalable model pipelines, advanced MLflow usage, testing, automated retraining, environment management, and deployment strategies for high-confidence production ML.

## PROGRAM OUTCOMES

### Capabilities your teams will gain

- Scale machine learning workflows more effectively on Databricks
- Strengthen advanced MLOps and lifecycle management practices
- Use MLflow, serving, and monitoring patterns with more confidence
- Improve deployment and retraining strategies for enterprise ML systems

## TALK TO US

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## OFFICE

DLF Cyber City, Gurugram  
Haryana — India  
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## ENTERPRISE CUSTOMIZATION

### Enterprise customization

Tailor this program to your organization's priorities: Helps advanced ML teams mature their production engineering practices on Databricks around scale, MLOps, model lifecycle control, and enterprise deployment.

#### Customization options

- Focus on model serving and release management for production teams
- Add deeper retraining and monitoring scenarios relevant to your MLOps setup
- Extend with Databricks Asset Bundles and environment promotion patterns

## CURRICULUM

### Curriculum roadmap

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#### MODULE 1

### Scale enterprise machine learning workloads

Design training and inference workflows that take advantage of Databricks for larger-scale machine learning pipelines, distributed processing, and performance-aware execution.

- Machine Learning at Scale

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#### MODULE 2

### Operate advanced MLOps workflows

Apply stronger practices for model lifecycle control, testing, deployment automation, monitoring, and reliable production operations.

- Advanced Machine Learning Operations

## PRIVATE DELIVERY

### Plan a private cohort for your team





Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call

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