



MICROSOFT TRAINING

Azure Databricks Machine Learning Course

Build, train, and deploy powerful machine learning models on Azure Databricks. Master scalable MLOps for enterprise solutions.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

COURSE OVERVIEW

This intermediate-level Azure Databricks Machine Learning course from Computer Pride is meticulously designed to equip data professionals with the essential skills to build, deploy, and manage scalable machine learning solutions on Microsoft's powerful cloud platform. Leveraging the unified analytics capabilities of Azure Databricks, participants will dive into accelerated data processing with Apache Spark and robust machine learning workflows using MLflow. This course bridges the gap between theoretical machine learning concepts and practical, cloud-native implementation, ensuring you can tackle real-world big data challenges. You will gain proficiency in preparing data efficiently, training models at scale, and implementing MLOps principles directly within the Databricks environment.

Duration	2 hours
Level	Intermediate
Vendor	Microsoft

COURSE CURRICULUM

01 Module 1: Introduction to Azure Databricks for Machine Learning

- Overview of Azure Databricks and its role in ML workflows
- Navigating the Databricks Workspace
- Setting up and managing Databricks Clusters
- Introduction to Databricks Notebooks and basic data ingestion from Azure Storage accounts

02 Module 2: Data Preparation and Feature Engineering with Spark ML

- Loading and transforming large datasets using PySpark
- Common data cleaning and preprocessing techniques
- Fundamentals of feature engineering for machine learning models
- Introduction to Delta Lake for reliable and performant data lakes

03 Module 3: Building and Tracking Machine Learning Models with MLflow

- Training various machine learning models (e.g., classification, regression) using Spark MLlib or popular Python libraries
- Introduction to MLflow for experiment tracking and model logging
- Evaluating model performance and selecting optimal models
- Hyperparameter tuning basics within Databricks

04 Module 4: Model Management and Basic Deployment

- Utilizing MLflow Model Registry for versioning and managing model lifecycle
- Overview of common model deployment patterns on Azure (e.g., batch inference)
- Introduction to integrating Databricks ML with other Azure services
- Best practices for MLOps within the Databricks ecosystem

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Azure Machine Learning Engineer**

- > Cloud-Native Data Scientist specializing in Big Data
- > Big Data Engineer with MLFlow Integration Expertise

FREQUENTLY ASKED QUESTIONS

Q: What are the core prerequisites for successfully completing this Azure Databricks Machine Learning course?

To get the most out of this course, participants should have a foundational understanding of Python programming, basic machine learning concepts, and a general familiarity with cloud computing principles, ideally with some exposure to Azure services. Experience with SQL is also beneficial for data manipulation.

Q: What specific hands-on skills will I acquire that are directly applicable to an Azure Machine Learning Engineer role?

Upon completion, you will be proficient in setting up and managing Databricks workspaces for ML, performing scalable data preparation using PySpark, training and evaluating machine learning models on large datasets, and crucially, using MLflow for experiment tracking and model versioning – all vital skills for an Azure Machine Learning Engineer focused on productionizing models.

Q: How does this course uniquely position me for career growth compared to other generic ML courses?

This course is specifically tailored to the Azure Databricks ecosystem, providing targeted expertise in a highly sought-after, integrated platform for big data analytics and machine learning. You'll gain practical experience with MLOps best practices using MLflow within Azure, a skill set critical for roles demanding scalable and reliable ML solutions in a Microsoft cloud environment, making you a more attractive candidate for specialized cloud-native data science and engineering positions.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

Location	Email	Phone
1st Flr, ICEA Building Kenyatta Ave, Nairobi	info@computer-pride.co.ke	+254 705 900 900
www.computer-pride.co.ke		