RED HAT TRAINING

Developing Deploying Ai Ml Applications Red Hat Openshift Ai267

Develop & deploy AI/ML applications on Red Hat OpenShift. Master enterprise-grade MLOps to deliver intelligent solutions.

DURATION
2 hours

LEVEL
Intermediate

FORMAT
Instructor-Led

- Globally Recognized Certification
- Expert-Led Hands-On Training
- Flexible Scheduling

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COURSE OVERVIEW

This concise, intermediate-level Red Hat AI267 course, "Developing and Deploying AI/ML Applications on Red Hat OpenShift," is engineered to equip IT professionals with the essential skills to effectively integrate artificial intelligence and machine learning workloads into robust, scalable, and production-ready environments. You will gain a practical understanding of how to leverage the power of Red Hat OpenShift, an enterprise-grade Kubernetes platform, to streamline the entire lifecycle of AI/ML application development, from model training to deployment and management.

Participants will delve into the core technologies and methodologies required to operationalize machine learning (MLOps) within a cloud-native framework. The course covers key concepts such as containerization, orchestration, and automation specifically tailored for AI/ML pipelines on OpenShift. By mastering these techniques, you'll be able to accelerate innovation, enhance collaboration between data scientists and operations teams, and deliver intelligent applications with greater agility and reliability. This training is crucial for those looking to bridge the gap between AI/ML model development and their successful deployment in enterprise IT ecosystems.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat
Exam Code	AI-267

COURSE CURRICULUM

01 Module 1: Introduction to AI/ML on OpenShift

- Understanding the AI/ML application lifecycle
- Introduction to Red Hat OpenShift for AI/ML workloads
- Key challenges in deploying AI/ML models
- Overview of MLOps principles and their application

02 Module 2: Preparing OpenShift for AI/ML Workloads

- Setting up projects and namespaces for AI/ML
- Resource management for compute-intensive tasks (GPUs, CPUs)
- Introduction to persistent storage for datasets and models
- Utilizing OpenShift Operators for AI/ML services

03 Module 3: Deploying AI/ML Models with OpenShift

- Containerizing AI/ML models using Docker/Podman
- Building and pushing container images to OpenShift registries
- Deploying model inference services using Deployments and Services
- Exposing AI/ML endpoints with Routes and Ingress

04 Module 4: Managing and Scaling AI/ML Applications

- Monitoring AI/ML application performance and resource usage
- Scaling inference services based on demand
- Basic troubleshooting for AI/ML deployments on OpenShift
- Introduction to GitOps for AI/ML configuration management

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **MLOps Engineer specializing in Kubernetes/OpenShift platforms**

> **Cloud Native AI/ML Developer responsible for deploying intelligent applications**

> **DevOps Engineer focusing on AI/ML pipeline automation and infrastructure**

FREQUENTLY ASKED QUESTIONS

Q: What specific prior knowledge of AI/ML or OpenShift is recommended to get the most out of this course?

This course is designed for an intermediate audience. While a deep background in advanced AI/ML algorithms is not strictly required, a foundational understanding of machine learning concepts, model training basics, and familiarity with Linux command-line operations is beneficial. Prior exposure to containerization (Docker/Podman) and basic Kubernetes concepts (pods, deployments, services) will also greatly enhance your learning experience on Red Hat OpenShift.

Q: How does this Red Hat AI267 course specifically enhance MLOps capabilities for enterprise environments?

This course focuses on leveraging Red Hat OpenShift's enterprise features to operationalize AI/ML workflows. You will learn to containerize models, automate their deployment, and manage their lifecycle using OpenShift's robust orchestration capabilities. This directly translates to improved MLOps practices by providing a standardized, scalable, and secure platform for collaboration between data scientists and operations teams, reducing friction and accelerating time-to-market for intelligent applications within a controlled enterprise setting.

Q: Will I gain practical, hands-on experience in deploying an AI/ML model on OpenShift during this 2-hour course?

Given the 2-hour duration, this course focuses on providing a comprehensive conceptual and architectural understanding with practical demonstrations rather than extensive hands-on labs. You will observe step-by-step processes for preparing OpenShift, containerizing models, and deploying them, equipping you with the knowledge to apply these steps in your own environment. While direct lab time is limited, the content is structured to convey practical deployment skills.

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+	10,000+	50+

Years of Excellence	Professionals Trained	Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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