Szkolenie: HPE

Using HPE AI and Machine Learning

Cel szkolenia:

This course teaches how to use HPE Machine Learning Development Environment. Hands-on labs and activities guide you through machine learning and deep learning fundamentals. You explore the HPE Machine Learning Development Environment user interface and learn to run deep learning experiments and train models using the HPE Machine Learning Development Environment. You also learn about HPE Machine Learning Development System, a solution that combines HPE Machine Learning Development Environment software and HPE infrastructure. You learn to position the HPE Machine Learning Development solutions based on customer needs, as well as how to set up a proof-ofconcept environment.

Course objectives

At the conclusion of this course, you should be able to:

- Understand machine learning and deep learning fundamentals
- Describe HPE Machine Learning Development solutions' value proposition
- Use determined AI to train models
- Qualify customers and run a proof of concept

Audience

The ideal candidate for this course is anyone who needs to learn how to describe, position, recommend and demonstrate HPE Machine Learning Development solutions. This course helps candidates prepare for the exam: HPE2-N69 – Using HPE AI and Machine Learning

Plan szkolenia:

- Understand Machine Learning and Deep Learning Fundamentals
  - Machine learning technology evolution
  - Machine learning and deep learning model training
  - Consideration of issues data scientists confront during model training
  - Standard tools and frameworks for deep learning pipelines such as Pytorch and TensorFlow
  - Hyperparameter optimization (HPO)
  - Distributed (multi-GPU) training

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- Describe HPE Machine Learning Development Solutions' Value Proposition
  - HPE Machine Learning Development Environment value proposition
  - Common customer challenges in deep learning
  - A high-level look at how HPE Machine Learning Environment addresses these challenges
  - Where HPE Machine Learning Development Environment fits in the market
  - A high-level look at HPE Machine Learning Environment capabilities
  - Order process for HPE Machine Learning Development System
  - Distinguishing features of HPE Machine Learning Development Systems
- Using Determined AI to Train Models
  - HPE Machine Learning Development Environment software architecture
  - Flexible options for software-only deployment on on-prem servers or in the cloud
  - Intro to training a model on the HPE Machine Learning Development Environment
  - Detailed AI and machine learning training concepts
  - Using HPE Machine Learning Development Environment to run experiments, including experiments that feature distributed training and HPO
  - Experiment concepts and the relationships between workloads, trials, and experiments
  - Scheduling concepts
- Qualifying Customers and Running a Proof of Concept
  - Engaging and qualifying customers for an HPE Machine Learning Development Environment opportunity
  - Engaging and qualifying customers for an HPE Machine Learning Development System opportunity
  - Running a proof of concept

Poziom trudności

Certyfikaty:

The participants will obtain certificates signed by HPE (course completion).

Prowadzący:

Authorized HPE Trainer.

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