DP-3007 Train and deploy a machine learning model with Azure Machine Learning

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Azure Database Administrator Associate
Related Exam:	DP-300

Course Overview

To train a machine learning model with Azure Machine Learning, you need to make data available and configure the necessary compute. After training your model and tracking model metrics with MLflow, you can decide to deploy your model to an online endpoint for real-time predictions. Throughout this learning path, you explore how to set up your Azure Machine Learning workspace, after which you train and deploy a machine learning model.

About This Course

To train a machine learning model with Azure Machine Learning, you need to make data available and configure the necessary compute. After training your model and tracking model metrics with MLflow, you can decide to deploy your model to an online endpoint for real-time predictions. Throughout this learning path, you explore how to set up your Azure Machine Learning workspace, after which you train and deploy a machine learning model.

Prerequisites & Entry Requirements

General Prerequisites:

To maximize the benefits of this course, participants should have familiarity with the data science process. While the course doesn't delve deeply into data science concepts, a basic understanding is recommended. Additionally, familiarity with Python is essential, as the course focuses on utilizing the Python SDK for interacting with Azure Machine Learning.

Detailed Course Outline

1 - Make data available in Azure Machine Learning

- Understand URIs
- Create a datastore
- Create a data asset

2 - Work with compute targets in Azure Machine Learning

- Choose the appropriate compute target
- Create and use a compute instance
- Create and use a compute cluster

3 - Work with environments in Azure Machine Learning

- Understand environments
- Explore and use curated environments
- Create and use custom environments

4 - Run a training script as a command job in Azure Machine Learning

- Convert a notebook to a script
- Run a script as a command job
- Use parameters in a command job

5 - Track model training with MLflow in jobs

- Track metrics with MLflow
- View metrics and evaluate models

6 - Register an MLflow model in Azure Machine Learning

- Log models with MLflow
- Understand the MLflow model format
- Register an MLflow model

7 - Deploy a model to a managed online endpoint

- Explore managed online endpoints
- Deploy your MLflow model to a managed online endpoint
- Deploy a model to a managed online endpoint
- Test managed online endpoints

□□ Certification Path

Microsoft Certified: Azure Database Administrator Associate

Exam: DP-300

Frequently Asked Questions

Q: What delivery options are available for DP-3007 Train and deploy a machine learning model with Azure Machine Learning?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The DP-3007 Train and deploy a machine learning model with Azure Machine Learning course helps prepare you for the Microsoft Certified: Azure Database Administrator Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the DP-300 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day DP-3007 Train and deploy a machine learning model with Azure Machine Learning course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the DP-3007 Train and deploy a machine learning model with Azure Machine Learning training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for DP-3007 Train and deploy a machine learning model with Azure Machine Learning?

Yes, we provide corporate training, dedicated training, and closed classes for DP-3007 Train and deploy a machine learning model with Azure Machine Learning. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for DP-3007 Train and deploy a machine learning model with Azure Machine Learning?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your DP-3007 Train and deploy a machine learning model with Azure Machine Learning training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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