DP-3028 Implement Generative AI engineering with Azure Databricks

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 Applied Skills: Implement generative AI engineering with Azure Databricks
Related Exam:	DP-3028

Course Overview

This course covers generative AI engineering on Azure Databricks, using Spark to explore, fine-tune, evaluate, and integrate advanced language models. It teaches how to implement techniques like retrieval-augmented generation (RAG) and multi-stage reasoning, as well as how to fine-tune large language models for specific tasks and evaluate their performance. Students will also learn about responsible AI practices for deploying AI solutions and how to manage models in production using LLMOps (Large Language Model Operations) on Azure Databricks.

About This Course

This course covers generative AI engineering on Azure Databricks, using Spark to explore, fine-tune, evaluate, and integrate advanced language models. It teaches how to implement techniques like retrieval-augmented generation (RAG) and multi-stage reasoning, as well as how to fine-tune large language models for specific tasks and evaluate their performance. Students will also learn about responsible AI practices for deploying AI solutions and how to manage models in production using LLMOps (Large Language Model Operations) on Azure Databricks.

Who Should Attend

This course is designed for data scientists, machine learning engineers, and other AI practitioners who want to build generative AI applications using Azure Databricks. It is intended for professionals familiar with fundamental AI concepts and the Azure Databricks platform.

Prerequisites & Entry Requirements

General Prerequisites:

Before starting this module, you should be familiar with fundamental Azure Databricks concepts

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key metrics and LLM-as-a-judge frameworks.Apply responsible AI principles and implement LLMOps with MLflow and Unity Catalog., Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key metrics and LLM-as-a-judge frameworks.Apply responsible AI principles and implement LLMOps with MLflow and Unity Catalog., Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key metrics and LLM-as-a-judge frameworks.Apply responsible AI principles and implement LLMOps with MLflow and Unity Catalog., Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key metrics and LLM-as-a-judge frameworks.Apply responsible AI principles and implement LLMOps with MLflow and Unity Catalog., Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key metrics and LLM-as-a-judge frameworks.Apply responsible AI principles and implement LLMOps with MLflow and Unity Catalog., Implement Generative AI Engineering with Azure Databricks Course Objectives:Describe the fundamentals of Generative AI and Large Language Models (LLMs).Implement Retrieval Augmented Generation (RAG) workflows using Azure Databricks.Build and deploy multi-stage reasoning systems with popular open-source libraries.Fine-tune Azure OpenAI models using customized datasets.Evaluate LLMs using key

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Detailed Course Outline

1 - Get started with language models in Azure Databricks

- Understand Generative AI
- Understand Large Language Models (LLMs)
- Identify key components of LLM applications
- Use LLMs for Natural Language Processing (NLP) tasks

2 - Implement Retrieval Augmented Generation (RAG) with Azure Databricks

- Explore the main concepts of a RAG workflow
- Prepare your data for RAG
- Find relevant data with vector search
- Rerank your retrieved results

3 - Implement multi-stage reasoning in Azure Databricks

- What are multi-stage reasoning systems?
- Explore LangChain
- Explore LlamaIndex
- Explore Haystack
- Explore the DSPy framework

4 - Fine-tune language models with Azure Databricks

- What is fine-tuning?
- Prepare your data for fine-tuning
- Fine-tune an Azure OpenAI model

5 - Evaluate language models with Azure Databricks

- Explore LLM evaluation
- Evaluate LLMs and AI systems
- Evaluate LLMs with standard metrics
- Describe LLM-as-a-judge for evaluation

6 - Review responsible AI principles for language models in Azure Databricks

- What is responsible AI?
- Identify risks
- Mitigate issues
- Use key security tooling to protect your AI systems

7 - Implement LLMOps in Azure Databricks

- Transition from traditional MLOps to LLMOps
- Understand model deployments
- Describe MLflow deployment capabilities
- Use Unity Catalog to manage models

, Get started with language models in Azure Databricks, Implement Retrieval Augmented Generation (RAG) with Azure Databricks, Implement multi-stage reasoning in Azure Databricks, Fine-tune language models with Azure Databricks, Evaluate language models with Azure Databricks, Review responsible AI principles for language models in Azure Databricks, Implement LLMOps in Azure Databricks

□□ Certification Path

Microsoft Applied Skills: Implement generative AI engineering with Azure Databricks

Exam: DP-3028

Upcoming Schedule

Available training dates for DP-3028 Implement Generative AI engineering with Azure Databricks:

Start Date	End Date	Location	Delivery	Price
14 Dec 2026	14 Dec 2026	Online	Virtual	€695.00

Frequently Asked Questions

Q: What delivery options are available for DP-3028 Implement Generative AI engineering with Azure Databricks?

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-3028 Implement Generative AI engineering with Azure Databricks course helps prepare you for the Microsoft Applied Skills: Implement generative AI engineering with Azure Databricks certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the DP-3028 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-3028 Implement Generative AI engineering with Azure Databricks 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-3028 Implement Generative AI engineering with Azure Databricks 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-3028 Implement Generative AI engineering with Azure Databricks?

Yes, we provide corporate training, dedicated training, and closed classes for DP-3028 Implement Generative AI engineering with Azure Databricks. 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: What related terms do people search for?

Popular related searches include: DP-3028: Implement Generative AI engineering with Azure Databricks, Microsoft, vILT, DP-3028

Q: Why choose Nexus Human for DP-3028 Implement Generative AI engineering with Azure Databricks?

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-3028 Implement Generative AI engineering with Azure Databricks training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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