Implement knowledge mining with Azure AI Search (AI-3022)

Description

An Essential Training to Harness the Power of Azure AI Search

Do you have complex and varied data from multiple sources but struggle to extract actionable insights? The AI-3022 training, titled "Implement Knowledge Exploration with Azure AI Search," is designed to help you master this advanced technology. With this course, you'll learn to use Azure AI Search to transform your structured and unstructured data into actionable information.

Why Choose This Training on Azure AI Search?

By taking this course, you'll gain access to proven techniques for creating robust solutions that meet current business needs. Develop your expertise in Azure AI Search and learn to handle indexing, ranking, and data retrieval tools. Give your applications a competitive edge by leveraging the full potential of this platform's advanced features.

Course Content
Module 1: Create a Solution with Azure AI Search

- Manage capacity
- Understand search components
- Understand the indexing process
- Search within an index
- Apply filtering and sorting
- Improve the index

Module 2: Create Custom Skills for Azure AI Search

- Define the custom skill schema
- Add a custom skill
- Use a custom text classification skill
- Use a custom Machine Learning skill

Module 3: Create a Knowledge Base with Azure AI Search

- Define projections
- Define a knowledge base

Module 4: Implement Advanced Search Features in Azure AI Search

- Improve document ranking with term optimization
- Enhance search result relevance by adding scoring profiles
- Improve an index with analyzers and token conditions
- Include multiple languages in an index
- Enhance the search experience by sorting results by proximity to a reference point

Module 5: Search Data Outside Azure Platform Using Azure Data Factory

- Index data from external data sources with Azure Data Factory
- Index all data using Azure AI Search Push API

Module 6: Manage an Azure AI Search Solution

- Manage the security of an Azure AI Search solution
- Optimize the performance of an Azure AI Search solution
- Manage the costs of an Azure AI Search solution
- Improve the reliability of an Azure AI Search solution
- Monitor an Azure AI Search solution
- Debug search issues using the Azure portal

Module 7: Perform Search Re-ranking with Semantic Ranking in Azure AI Search

- What is semantic ranking?
- Configure semantic ranking

Module 8: Perform Vector Search and Retrieval in Azure AI Search

- What is vector search?
- Prepare your search
- Understand embedding

Lab / Exercises

- This course provides you with exclusive access to the official Microsoft lab, enabling you to practice your skills in a professional environment.

Documentation

- Access to Microsoft Learn, Microsoft's online learning platform, offering interactive resources and educational content to deepen your knowledge and develop your technical skills.

Participant profiles

- AI engineers
- Software developers
- Cloud solution architects
- Students in computer science or AI
- Data management professionals
- Technical leads in digital transformation

Prerequisites

- Familiarity with Microsoft Azure
- Experience developing with C# or Python
- Understanding basic concepts of artificial intelligence

Objectives

- Create search solutions with Azure AI Search
- Develop custom skills to enrich data
- Design and manage knowledge bases
- Implement advanced search features

- Use Azure Data Factory to integrate external data
- Optimize the management and performance of search solutions
- Apply semantic ranking to improve results
- Leverage vector search for enhanced performance

Description
Implement knowledge mining with Azure AI Search (AI-3022)
Niveau
Intermédiaire
Classroom Registration Price (CHF)
900
Virtual Classroom Registration Price (CHF)
850
Duration (in Days)
1
Reference
AI-3022