AI-3022: Implement AI Skills in Azure AI Search

Course Content

Course Description:

Do you have information locked up in structured and unstructured data sources? Using Azure AI Search, you can extract key insights from this data, and enable applications to search and analyze them.

Prerequisites:

Familiarity with Microsoft Azure
Application development experience with C# or Python

Target Audience:

AI Engineer, Developers, Solution Architects, Students

Topics:

Lesson:

Create an Azure AI Search solution
- Introduction
- Manage capacity
- Understand search components
- Understand the indexing process
- Search an index
- Apply filtering and sorting
- Enhance the index
- Exercise - Create a search solution
- Knowledge check
- Summary

Create a custom skill for Azure AI Search
- Introduction
- Define the custom skill schema
- Add a custom skill
- Custom text classification skill
- Machine learning custom skill
- Exercise - Create a Custom Skill for Azure AI Search
- Knowledge check
- Summary

Create a knowledge store with Azure AI Search
- Introduction
- Define projections
- Define a knowledge store
- Exercise - Create a knowledge store
- Knowledge check
- Summary

Implement advanced search features in Azure AI Search
- Introduction
- Improve the ranking of a document with term boosting
- Improve the relevance of results by adding scoring profiles
- Improve an index with analyzers and tokenized terms
- Enhance an index to include multiple languages
- Improve search experience by ordering results by distance from a given reference point
- Exercise: Implement enhancements to search results
- Knowledge check
- Summary

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Search data outside the Azure platform in Azure AI Search using Azure Data Factory

- Introduction
- Index data from external data sources using Azure Data Factory
- Index any data using the Azure AI Search push API
- Exercise: Add to an index using the push API
- Knowledge check
- Summary

Maintain an Azure AI Search solution

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

Perform search reranking with semantic ranking in Azure AI Search

- Introduction
- What is semantic ranking?
- Set up semantic ranking
- Exercise - Use semantic ranking on an index
- Knowledge check
- Summary

Perform vector search and retrieval in Azure AI Search

- Introduction
- What is vector search?
- Prepare your search
- Understand embedding
- Exercise - Use the REST API to run vector search queries
- Knowledge check
- Summary

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NASBA Information

Level: Intermediate

Attendance Requirement: To be awarded the full credit hours, you must sign in and attend the entire course.

Fields: Computer Software & Applications

CPEs: 14

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