

AI-3022: Implement knowledge mining with Azure AI Search

Course Outline

1) Create an Azure AI Search solution

- Create an Azure AI Search solution
- Develop a search application
- Lab: Create a search solution

2) Create a custom skill for Azure AI Search

- Implement a custom skill for Azure AI Search
- Integrate a custom skill into an Azure AI Search skillset
- Lab: Implement a custom skill

3) Create a knowledge store with Azure AI Search

- Create a knowledge store from an Azure AI Search pipeline
- View data in projections in a knowledge store
- Lab: Create a knowledge store

4) Enrich your data with Azure AI Language

- Use Azure AI Language to enrich Azure AI Search indexes
- Enrich an AI Search index with custom classes
- Lab: Enrich a search index in Azure AI Search with custom classes

5) Implement advanced search features in Azure AI Search

- 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
- Lab: Implement enhancements to search results

6) Build an Azure Machine Learning custom skill for Azure AI Search

- Understand how to use a custom Azure Machine Learning skillset
- Use Azure Machine Learning to enrich Azure AI Search indexes
- Lab: Enrich a search index using Azure Machine Learning model

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

- Use Azure Data Factory to copy data into an Azure AI Search Index
- Use the Azure AI Search push API to add to an index from any external data source
- Lab: Add to an index using the push API

8) Maintain an Azure AI Search solution

- Use Language Studio to enrich Azure AI Search indexes
- Enrich an AI Search index with custom classes

- Lab: Debug search issues

9) Perform search reranking with semantic ranking in Azure AI Search

- Describe semantic ranking
- Set up semantic ranking
- Perform semantic ranking on an index
- Lab: Use semantic ranking on an index

10) Perform vector search and retrieval in Azure AI Search

- Describe vector search
- Describe embeddings
- Run vector search queries using the REST API
- Lab: Use the REST API to run vector search queries

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