KOENIG
step forward

Microsoft Solutions Partner
Microsoft Cloud Training Services

KOENIG SOLUTIONS · COURSE OUTLINE

AI-3022: Implement Knowledge Mining with Azure AI Search

Learn to build, enhance and maintain Azure AI Search solutions, from indexing and custom skills to vector search and semantic ranking.

1 Day	8	30
8 HOURS A DAY	MODULES	TOPICS

COURSE OVERVIEW

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.

WHO THIS COURSE IS FOR

- **Search Engineers**
- **Data Engineers**
- **AI Developers**
- **Solution Architects**
- **Cloud Developers**

PREREQUISITES

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

LEARNING OBJECTIVES

- Create an Azure AI Search solution and manage capacity
- Search an index and apply filtering and sorting
- Build a custom skill using the custom skill schema
- Define projections and create a knowledge store
- Improve ranking and relevance with term boosting and scoring profiles
- Index external data using Azure Data Factory and the push API
- Maintain security, performance, cost and reliability of a search solution
- Set up semantic ranking and vector search

COURSE SYLLABUS

8 Modules, 30 Topics

01

Create an Azure AI Search Solution

TOPICS

Manage capacity · Understand search components · Understand the indexing process · Search an index · Apply filtering and sorting · Enhance the index

02

Create a Custom Skill for Azure AI Search

TOPICS

Define the custom skill schema · Add a custom skill · Custom text classification skill · Machine learning custom skill

03

Create a Knowledge Store with Azure AI Search

TOPICS

Define projections · Define a knowledge store

04

Implement Advanced Search Features in Azure AI Search

TOPICS

- 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

05

Search Data Outside the Azure Platform in Azure AI Search Using Azure Data Factory

TOPICS

- Index data from external data sources using Azure Data Factory
- Index any data using the Azure AI Search push API

06

Maintain an Azure AI Search Solution

TOPICS

- 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

07

Perform Search Reranking with Semantic Ranking in Azure AI Search

TOPICS

What is semantic ranking? · Set up semantic ranking

08

Perform Vector Search and Retrieval in Azure AI Search

TOPICS

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

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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