KOENIG SOLUTIONS · COURSE OUTLINE

Decode Azure Cognitive Search

Learn to build, index and query search solutions with Azure Cognitive Search, from indexers to knowledge mining.

2 Days	10	32	6
16 HOURS	MODULES	TOPICS	HANDS-ON ACTIVITIES

COURSE OVERVIEW

Start your Hugging Face - Generative AI journey today

WHO THIS COURSE IS FOR

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

PREREQUISITES

- Basic understanding of Python programming
- Familiarity with natural language processing concepts is recommended
- No prior experience with Hugging Face is required
- Some experience with programming is suggested
- Azure experience is required

TOOLS AND REQUIREMENTS

- Student/Client will be provided access to Azure Pass only during the training days
- The hands-on labs will provide practical experience with setting up

LEARNING OBJECTIVES

What You'll Learn :

- Understanding of Hugging Face Platform
- Explore different models, Datasets, documents and ecosystem
- Play with Pipelines

TRAINING APPROACH

Hands-on Approach. This course can be customised based on the audience's prior knowledge and specific areas of interest.

COURSE SYLLABUS

10 Modules, 32 Topics

01

Introduction to Azure Cognitive Search

TOPICS

What is Azure Cognitive Search? · Overview of the service · Key features and capabilities · Use cases and applications

02

Hands on

Elements of a Search Solution

TOPICS

Understanding the search index · Defining and managing data sources · Indexers and skillsets

03

Hands on

Building an Index - Indexer

TOPICS

Introduction to indexers · Creating and configuring an indexer · Indexing data from various sources · Use an indexer to build an index · Persist enriched data in a knowledge store

04

Building an Index - Knowledge Store

TOPICS

Understanding the knowledge store · Persisting enriched data in a knowledge store · Creating an index in the Azure portal

05

Hands on

Basic Querying Data

TOPICS

- Basics of querying data in Azure Cognitive Search
- Formulating search queries
- Using OData expressions for filtering, sorting, and pagination
- Query data in an Azure Cognitive Search index

06

Advanced Querying Data

TOPICS

Advanced querying techniques · Full-text search capabilities · Scoring profiles and tuning relevance

07

Hands on

Implementing Knowledge Mining with Azure Cognitive Search - Part 1

TOPICS

Introduction to knowledge mining · Understanding the enrichment pipeline · Creating and configuring skill sets

08

Implementing Knowledge Mining with Azure Cognitive Search - Part 2

TOPICS

Advanced skills in the enrichment pipeline · Knowledge mining best practices · Troubleshooting common issues

09

2 Hands ons

Advanced Concepts

TOPICS

- Field Mapping, Synonym Map, Suggestions API, Filters, and Facets
- Using incremental caching using high watermark

10

Hands-on Training and Q&A

TOPICS

- Hands-on exercises on all topics covered
- Q&A session to address any doubts or questions

NOTES

- Number of Modules - 10

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
02	**Elements of a Search Solution**	Understand indexes
03	**Building an Index - Indexer**	Create an index in the Azure portal
05	**Basic Querying Data**	Explore knowledge mining
07	**Implementing Knowledge Mining with Azure Cognitive Search - Part 1**	How to implement knowledge mining with Azure Cognitive Search
09	**Advanced Concepts**	■ Using incremental caching using high watermark ■ Training on Azure Cognitive Search from Microsoft and other third-party training providers

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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