AI-3022 Implement knowledge mining with Azure AI Search

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Applied Skills: Implement knowledge mining with Azure AI Search
Related Exam:	AI-3022

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.

About This Course

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 & Entry Requirements

General Prerequisites:

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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and

deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search

capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes

with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy., Course ObjectivesBuild and deploy a comprehensive Azure AI Search solution.Develop and integrate custom skills to enhance Azure AI Search.Create and manage a knowledge store for enriched search experiences.Use Azure AI Language to enrich search indexes with custom classes.Implement advanced search features, including term boosting and multi-language support.Leverage Azure Machine Learning models to enhance AI search capabilities.Integrate external data sources using Azure Data Factory and the push API.Perform semantic ranking and vector search for improved search accuracy.

Detailed Course Outline

1 - Create an Azure AI Search solution

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

2 - Create a custom skill for Azure AI Search

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

3 - Create a knowledge store with Azure AI Search

- Define projections
- Define a knowledge store

4 - 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

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

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

6 - Maintain an Azure AI Search solution

- 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

7 - Perform search reranking with semantic ranking in Azure AI Search

- What is semantic ranking?
- Set up semantic ranking

8 - Perform vector search and retrieval in Azure AI Search

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

, Create an Azure AI Search solution, Create a custom skill for Azure AI Search, Create a knowledge store with Azure AI Search, Enrich your data with Azure AI Language, Implement advanced search features in Azure AI Search, Build an Azure Machine Learning custom skill for Azure AI Search, Search data outside the Azure platform in Azure AI Search using Azure Data Factory, Maintain an Azure AI Search solution, Perform search reranking with semantic ranking in Azure AI Search, Perform vector search and retrieval in Azure AI Search

🎓 Certification Path

Microsoft Applied Skills: Implement knowledge mining with Azure AI Search

Exam: AI-3022

Frequently Asked Questions

Q: What delivery options are available for AI-3022 Implement knowledge mining with Azure AI Search?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The AI-3022 Implement knowledge mining with Azure AI Search course helps prepare you for the Microsoft Applied Skills: Implement knowledge mining with Azure AI Search certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the AI-3022 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 1-day AI-3022 Implement knowledge mining with Azure AI Search course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the AI-3022 Implement knowledge mining with Azure AI Search training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for AI-3022 Implement knowledge mining with Azure AI Search?

Yes, we provide corporate training, dedicated training, and closed classes for AI-3022 Implement knowledge mining with Azure AI Search. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: AI-3022: Implement knowledge mining with Azure AI Search, Microsoft, vILT, AI-3022

Q: Why choose Nexus Human for AI-3022 Implement knowledge mining with Azure AI Search?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AI-3022 Implement knowledge mining with Azure AI Search training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

© 2026 Nexus Human. All rights reserved. This brochure was generated on 19/10/2026.