

How can we facilitate knowledge retrieval in our organization?

Is your organisation struggling to easily identify and explore relevant content at scale? Are you being confronted with different document types over various sources that you want to make easily searchable for your employees? Your company holds a lot of content that needs linguistic or custom text analysis? Then a Cognitive Search solution might be what you need.

COGNITIVE SEARCH

A Cognitive Search Solution is a knowledge retrieval service with built-in AI capabilities. It provides a full-text search engine, persistent storage of search indexes and integrated AI used during indexing to extract more text and structure in documents. The solution uses Natural Language Processing (NLP) and AI services across vision, language, and speech (OCR, translation, key phrase extraction, location-, people-, and organization detection) to transform raw, unstructured information into searchable content.

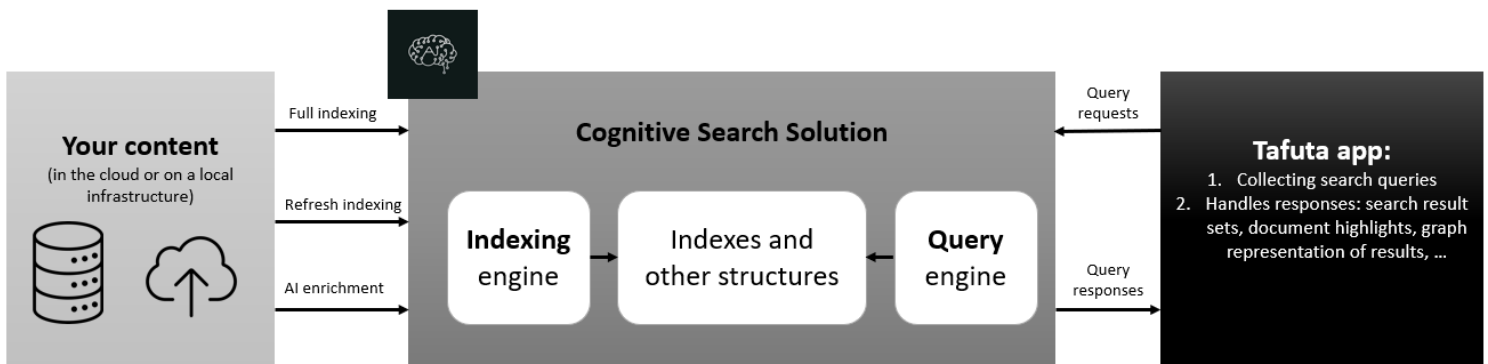
INTERNAL & EXTERNAL DATASOURCES

With a Cognitive Search solution, you get a search engine that performs indexing and query execution, persistent storage of indexes that you create and manage, and a natural query language for composing simple to complex queries. A Cognitive Search solution is integrated with services that automate data ingestion/retrieval from data sources, so your solution runs on an ever growing content database. A Cognitive Search Solution can deal with several popular file formats, such as Microsoft Word, PowerPoint, and Excel, Adobe PDF, and PNG, RTF, JSON, HTML, and XML.

WHEN TO USE A COGNITIVE SEARCH ENGINE

A Cognitive Search solution is well suited for the following scenarios:

- Your organization needs an in-company search experience similar to commercial web search engines.
- Consolidation of heterogeneous content types into a private, user-defined search index. You can populate the search index with documents from any source. Control over the index schema and refresh schedule is one of the key reasons for using our Cognitive Search solution.
- Raw content is largely undifferentiated text or image files or application files. During indexing, the Search solution identifies and extracts text, creates structure and new information such as translated text or entities.
- Your content needs linguistic or custom text analysis. With a Cognitive Search solution, you can configure analyzers to achieve specialized processing of raw content, such as filtering out diacritics, or recognizing and preserving patterns in strings.



The screenshot shows the Tafuta search interface. At the top, there is a search bar with the query 'microsoft azure' and a search button. Below the search bar, there are filters for Organizations, Locations, and KeyPhrases. The search results are displayed in a list format, with each result showing a title, a snippet of text, and a relevance score. The first result is 'Addressing Enterprise Cloud Priorities with Microsoft Azure - IDC white paper.pdf' with a score of 12.66. The second result is 'Microsoft Azure GxP Guideline (FINAL) July 2020.pdf' with a score of 12.52. The third result is 'IDC WP - Addressing Enterprise Cloud Priorities with Microsoft Azure.pdf' with a score of 12.49. The interface also includes a 'More like this' button for each result and a 'Combine All' button for the filters.

TAFUTA

Tafuta is a Swahili verb that stands for search or seek. It's our solution for your organization's knowledge retrieval needs. Organizations like **Flanders Investment & Trade, VITO, VLAIO & VIB** have implemented the solution already and have experienced the benefits of search 2.0.

VITO uses Tafuta to offer its technological researchers a tool to more accurately retrieve relevant research papers and documents. The data source includes a large number of .pdf, .docx, .pptx and .xlsx files that are stored on an on-premise environment, and online resources like Google Scholar. Based on trends in research, the document database is automatically additionally populated with documents from external data sources. We've built a custom entity detection skill that allows for searches based on economical, chemical and process parameters. Search results are shown in a table, showing the most relevant results first, and in a graph representation, showing how different documents are connected and related to specific entities (people, organizations, ...) or topics.

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