

GPT Azure Search Engine Azure OpenAl Solution Accelerator



The Need for Better Document & Knowledge Management

Improving Access to Information with Smarter Search Solutions.



80%

 Amount of data in businesses that is unstructured



82%

 Of professionals say their companies struggle with efficient processing of unstructured data



\$14 K

Of productivity lost per year per information worker

Common applications of cognitive search

Enterprise Search (Find the right document)



- Find the correct document from a large repository
- Increase your teams' productivity
- Enrich documents with AI: classification, Entity extraction, OCR, etc

Knowledge Mining (Find the right content)



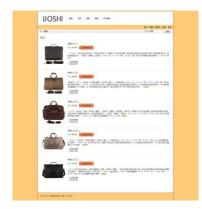
- Find answers to questions in natural language
- Find relevant knowledge within large corpus of text using Semantic expansion
- Find the right paragraphs within text corpus to answer specific questions

Document Intelligence (Digitize assets)



- Index structured documents such as contracts, invoices, sales orders, etc
- Extract important entities
- Find the relevant document
- Find the right information within documents

Catalogue Search (ecommerce, customerfacing web & mobile apps)



- Increase relevancy of product results
- Prevent "zero search results"
- Deliver intelligent product recommendations based on user intent
- Increase clickthrough and conversion rates



GPT Azure Search Engine

Your organization needs a search engine that can make sense of all kinds of types of data, stored in different locations, and that can return the links of similar documents, but more importantly, **provide the answer to the question**!

In other words, you want **private** and **secured ChatGPT** for your organization that can interpret, comprehend, and answer questions about your business.



The Benefits

Smart and Multilingual Search Engine: Provides links and answers to search queries, improving the search experience for customers and employees. Simplifies AI Implementation: Solves 80% of use cases for companies, without requiring retraining or hosting OpenAI GPT models. Python Code Deployment: All Azure services and configurations can be deployed via Python code, making it customizable and easy to maintain. Enriched Search Results: Uses Azure Cognitive Services to improve the accuracy of search results, detecting languages, OCR images, and recognizing entities. Streamlined Search Process: Uses LangChain as a wrapper for interacting with Azure OpenAI, vector stores, and constructing prompts. User-Friendly Interface: Uses Streamlit to build the demo web application in Python, providing an intuitive interface easy to set up and show value. Personalized Recommendations: Coming soon, the search engine will recommend new searches based on users' history, further improving

the search experience.

The Prerequisites

Before setting the 3-day Workshop date:

the following items need to be in place

- 1) Accepted Application to Azure Open Al
- 2) Microsoft CSU team need to be added as Guests in your Azure AD
- 3) A Resource Group (RG) needs to be set for this Workshop POC, in the customer Azure tenant
- 4) The customer team and the Microsoft team must have Contributor permissions to this RG
- 5) A storage account must be set in place in the RG. Disable firewalls and enable public network access from all networks
- 6) Documents must be uploaded to the storage account, at least 2 weeks prior to the workshop.
- 7) Azure Machine Learning Workspace must be deployed in the RG
- 8) Optional Databricks Workspace deployed in the RG

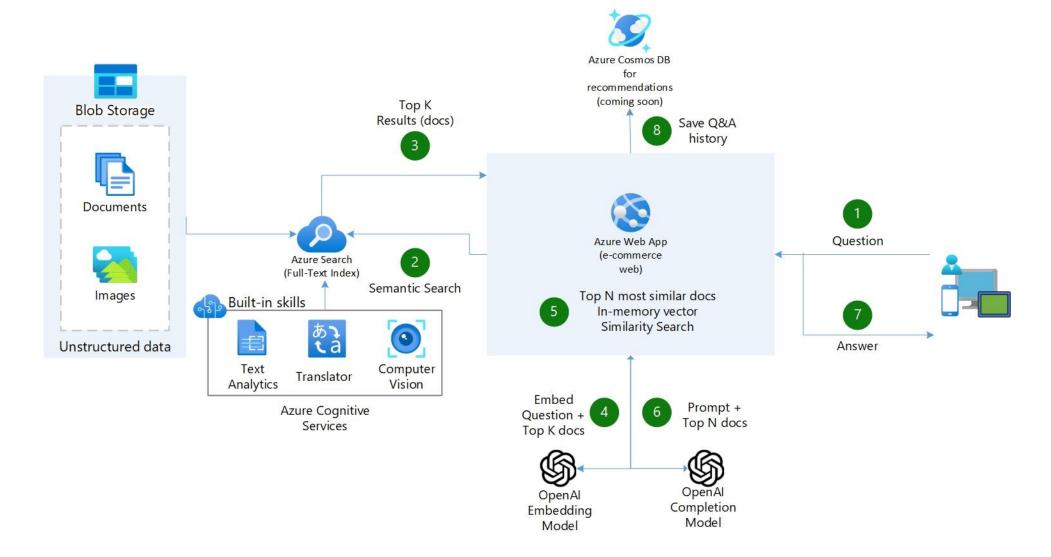
Datasets:

The following datasets are needed for the POC and must be uploaded to the blob storage:

- 1) Data/Documents can be of the following types:
 - CSV, EML, EPUB, GZ, HTML, JSON (see Indexing JSON blobs), KML (XML for geographic representations), Microsoft Office formats: DOCX/DOC/DOCM, XLSX/XLS/XLSM, PPTX/PPT/PPTM, MSG (Outlook emails), XML (both 2003 and 2006 WORD XML), Open Document formats: ODT, ODS, ODP, PDF, Plain text files (see also Indexing plain text), RTF, XML, ZIP.



MVP Architecture



Next steps: How to engage?







Discovery Call

Call with the Customer to assess qualification to the program

Offering: 3-day CSU-led workshop with experts on OpenAI + Azure Search



Proof of Value

CSU team, during the workshop, helps the interested customer build a Minimum Viable Product (MVP) using their own data and their own Azure subscription

Deployment

Production Smart Search System building (code-with) and deployment with guidance and support from the technical specialists (CSA) and Partners



30 minutes 3 days 4-8 weeks



Thank you!

