GPT Azure Search Engine

Azure OpenAI 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

©Microsoft Corporation. All rights reserved.

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

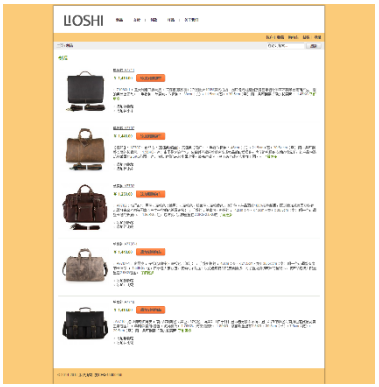
Knowledge Mining
(Find the right content)

- 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, customer-facing 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

©Microsoft Corporation. All rights reserved.

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.

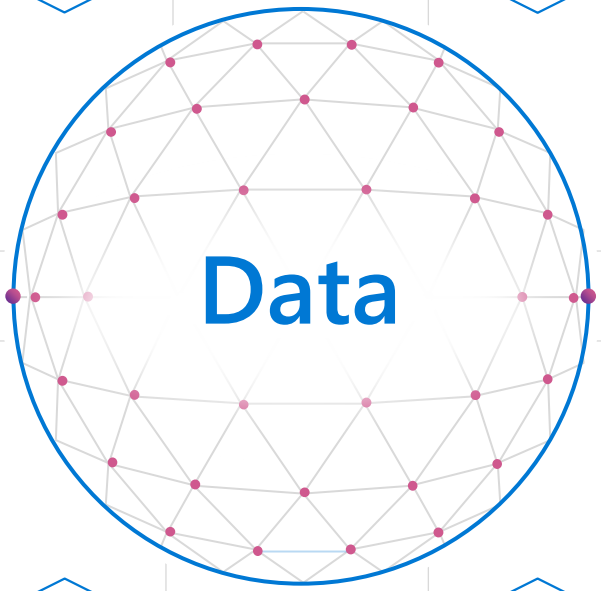
The GPT Azure Search Engine Accelerator

Azure Cognitive Search

Create a comprehensive Azure Cognitive Search solution with Semantic Search capabilities, AI-enriched Skillsets, and multiple indexes.

Azure OpenAI & ChatGPT

Harness a blend of state-of-the-art Azure OpenAI models to develop your own intelligent search engine and secure ChatGPT.



Variety of Datasets

Unlock valuable insights from your datasets, whether they consist of textual data or tabular information.

Web Application

Finally, package it all together in an Azure Web Application featuring a user-friendly interface, allowing you to effortlessly search for the information you need within your data.

©Microsoft Corporation. All rights reserved.

The Workshop Details

- Build a working POC with *your own data* in *your* Azure tenant
- We teach your team how to build the entire POC to help enable future scale and replication
- Rapid prototyping and quick time to market over 3 days
- Start using cutting edge Azure OpenAI models
- Learn and deploy multiple Azure services

Timeline

Validate use case & send pre-reqs for workshop
One 60-minute meeting

Client prepares pre-reqs & schedules workshop
~1 week

MSFT architects build POC in client's tenant
1-2 weeks

Workshop with client
3 Days

Completed POC!

©Microsoft Corporation. All rights reserved.

3 Day Workshop Agenda

From Idea to POC in 3 days

Day 1

- Overview of Azure Products and Azure OpenAI Theories
- Overview of Use Case and Architecture
- Walk Through of Github Repo
- Notebook 1: Create Azure Cognitive Search
- Notebook 2: Creating Search with Multiple Indexes

Day 2

- Notebook 3: Searching with Azure OpenAI ChatGPT
- Notebook 4: Implementing Memory to Power Conversations
- Notebook 5: Searching Across Tabular Datasets
- Notebook 6: Talking to a SQL Databases

Day 3

- Notebook 7: All Together – GPT Smart Search Engine Chat Bot
- Deployment of Web Application
- Closing Resources
- Next Steps Discussion: Production, Partners, Support
- Open Q&A

©Microsoft Corporation. All rights reserved.

The Prerequisites

Before setting the 3-day Workshop the following items need to be in place

1) Accepted application to Azure OpenAI (AOAI)
2) Azure Resource Group (RG) in the Azure tenant that has the accepted AOAI service
   - The customer team and the Microsoft team must have Contributor permissions to this resource group
3) Add our team as guests in your Azure AD
4) Datasets must be uploaded to the blob storage account, at least two weeks prior to the workshop date

Deploy the Following Azure Services:

1) Azure OpenAI
2) Azure Storage Account:
   - A storage account must be set in place in the RG. Disable firewalls and enable public network access from all networks
3) Azure Machine Learning:
   - Please ensure you have enough core compute quota in your Azure Machine Learning workspace
4) Azure Web Application:
   - Attendees will be deploying an Azure Web App *during* the workshop, please make sure your attendees can deploy a resource on the RG

Datasets

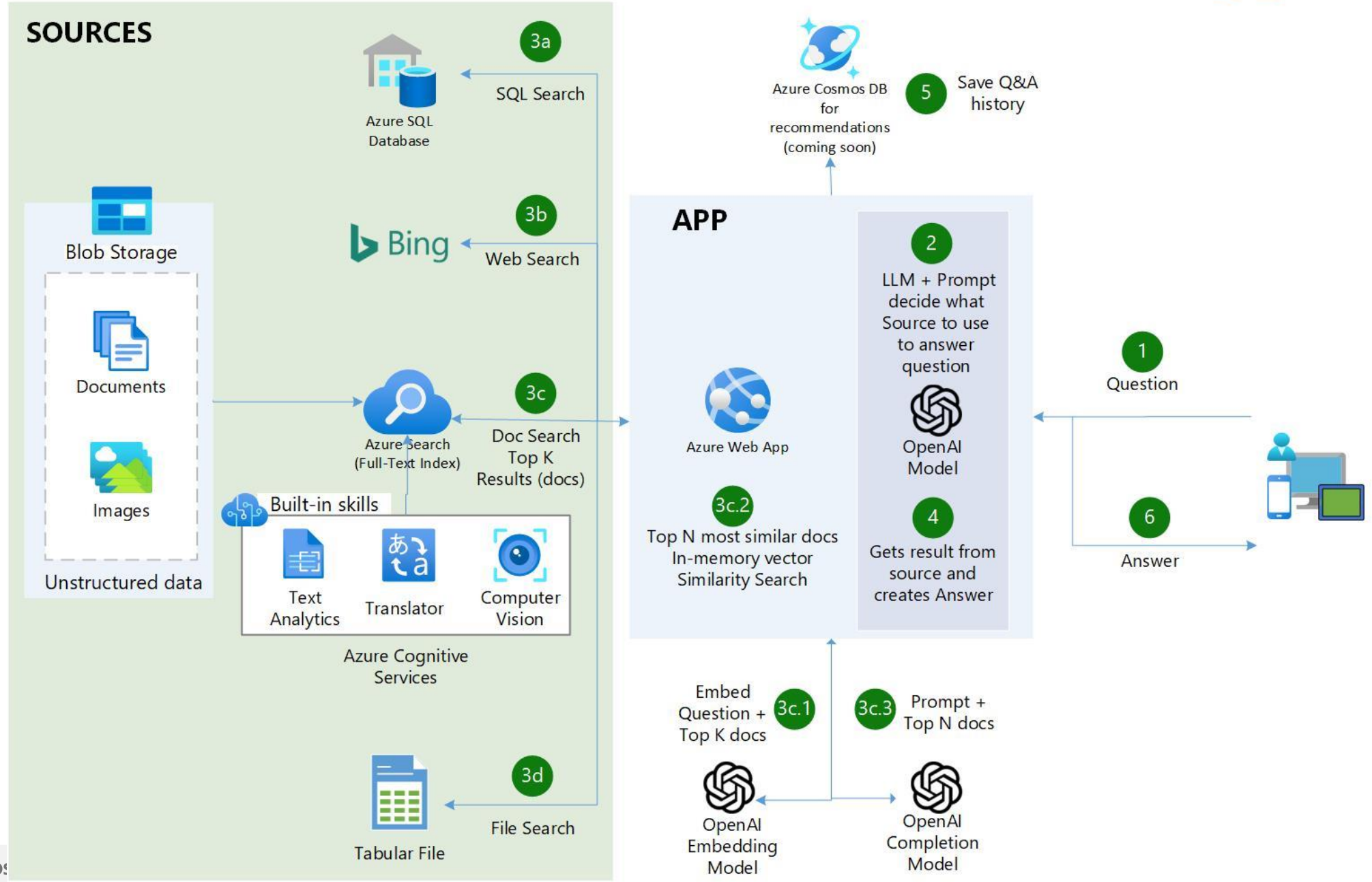
Your own data is required for the POC and must be uploaded at least 2 weeks prior to the workshop

1) Data must be uploaded to your Azure Storage Account in your RG
2) Data must be 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.*

©Microsoft Corporation. All rights reserved.

GPT Smart Seach Architecture

Microsoft Azure



Next steps: How to engage?

Discovery Call

Call with the client to assess qualification to the program

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

60 minutes

Proof of Value

CSU team, during the workshop, helps the interested customer build a Proof of Concept (POC) using their own data and their own Azure subscription

3 days

Deployment

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

4-8 weeks

©Microsoft Corporation. All rights reserved.

Thank you!