



# 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

# 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)



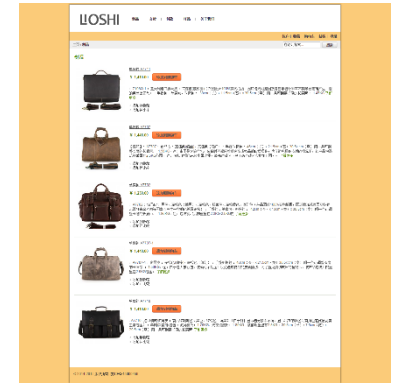
- Find answers to questions in natural language
- Find relevant knowledge within large corpus of text using Semantic expansion
- Find the right paragraphs within text corpus to answer specific questions

## 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)

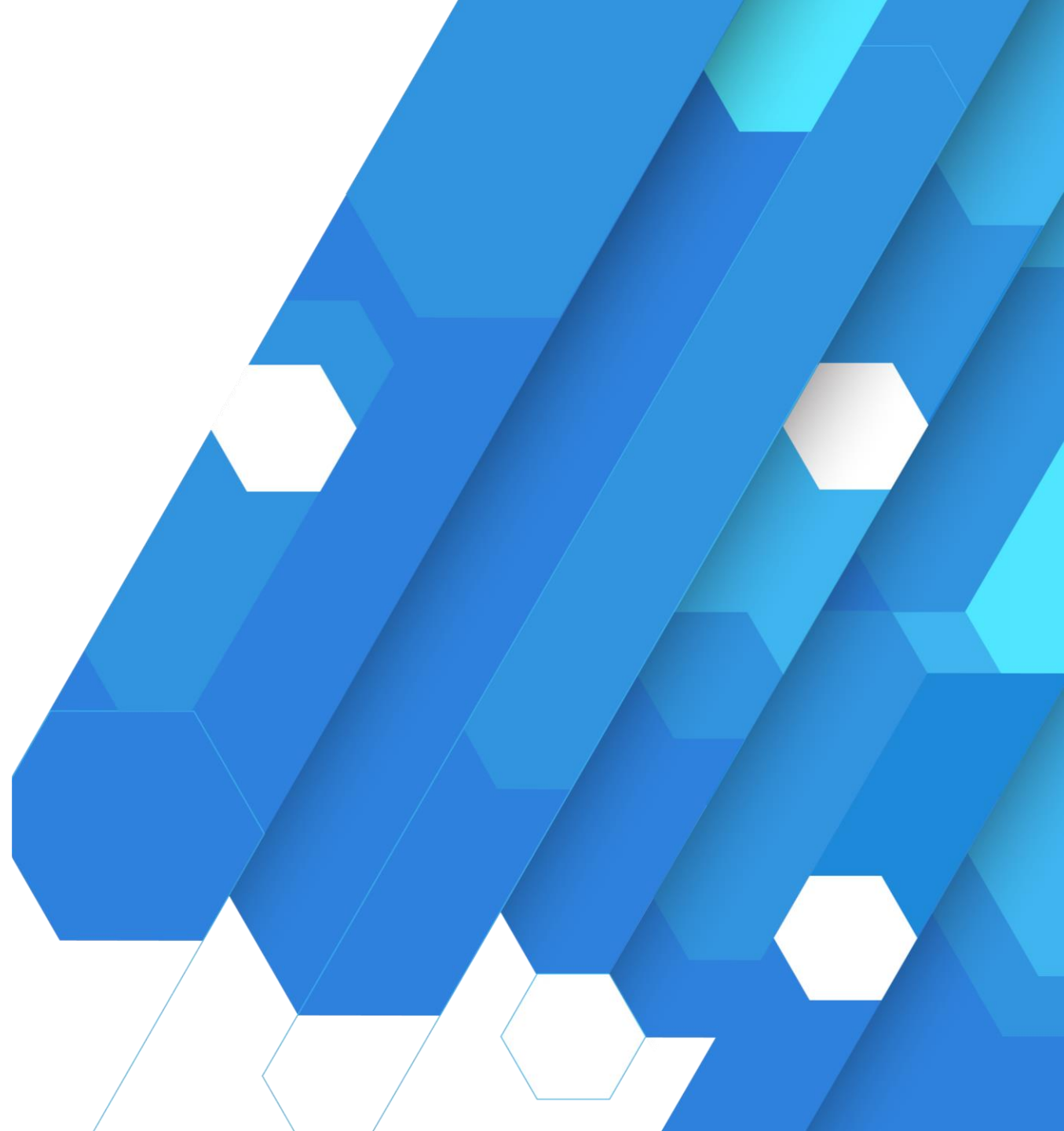


- Increase relevancy of product results
- Prevent "zero search results"
- Deliver intelligent product recommendations based on user intent
- Increase clickthrough and conversion rates

# 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.

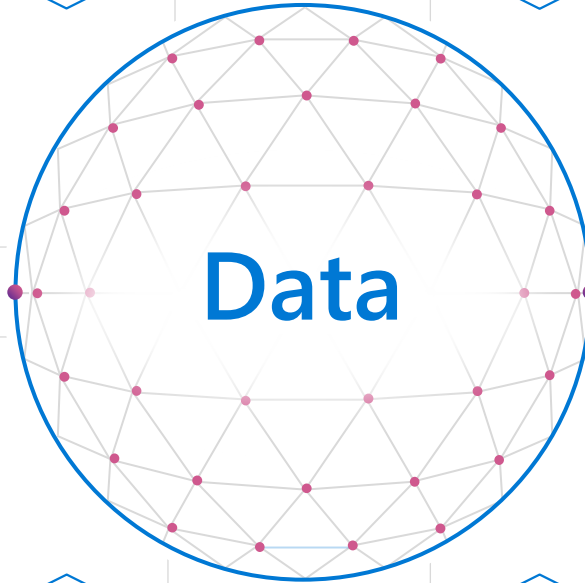


## Variety of Datasets

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



Data













## 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.



# 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!

# 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

# 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 as CSV or Parquet files 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

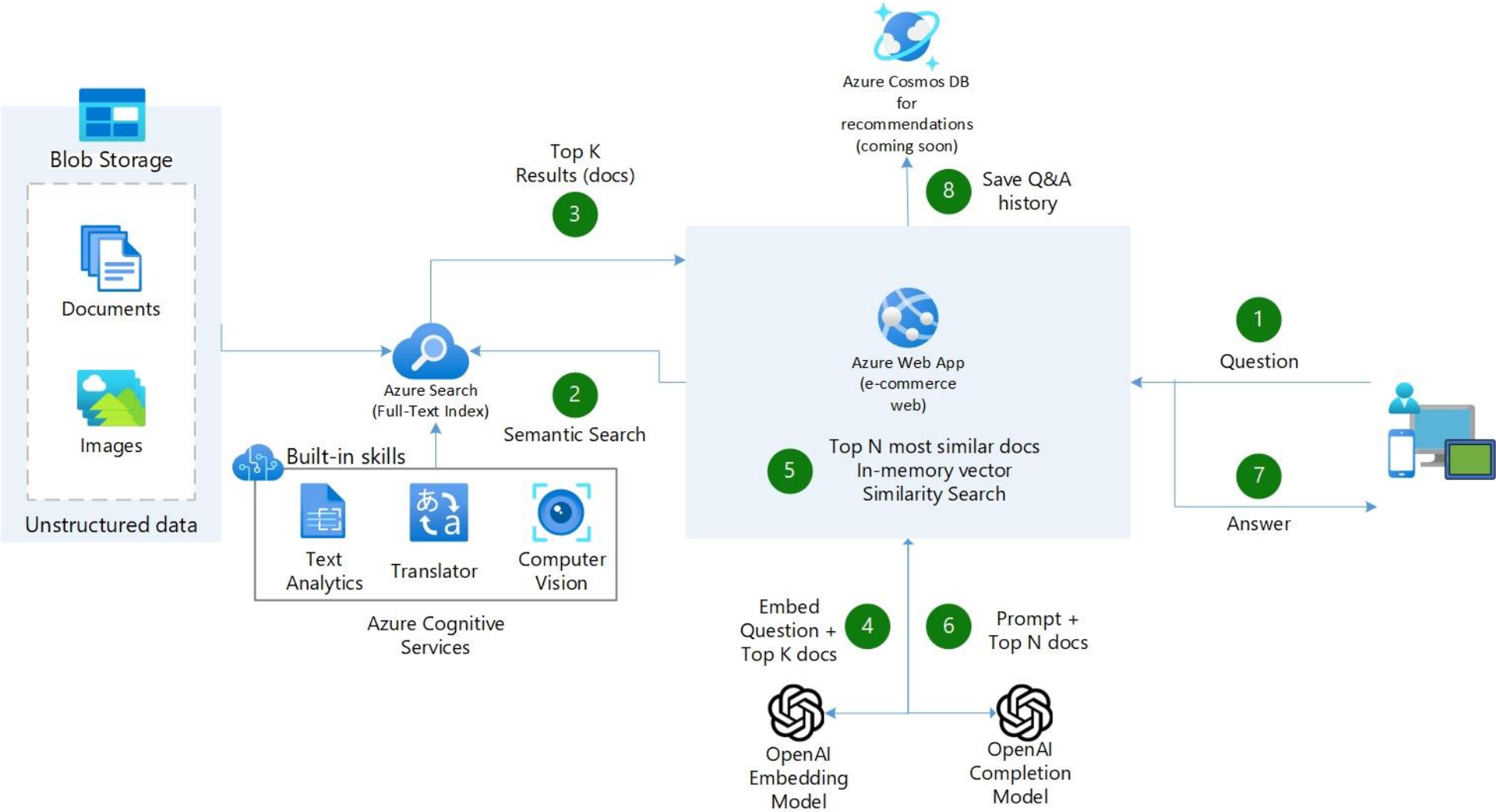
## Datasets

*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.



# MVP Architecture



# 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

Thank you!

