

# Azure OpenAI Service

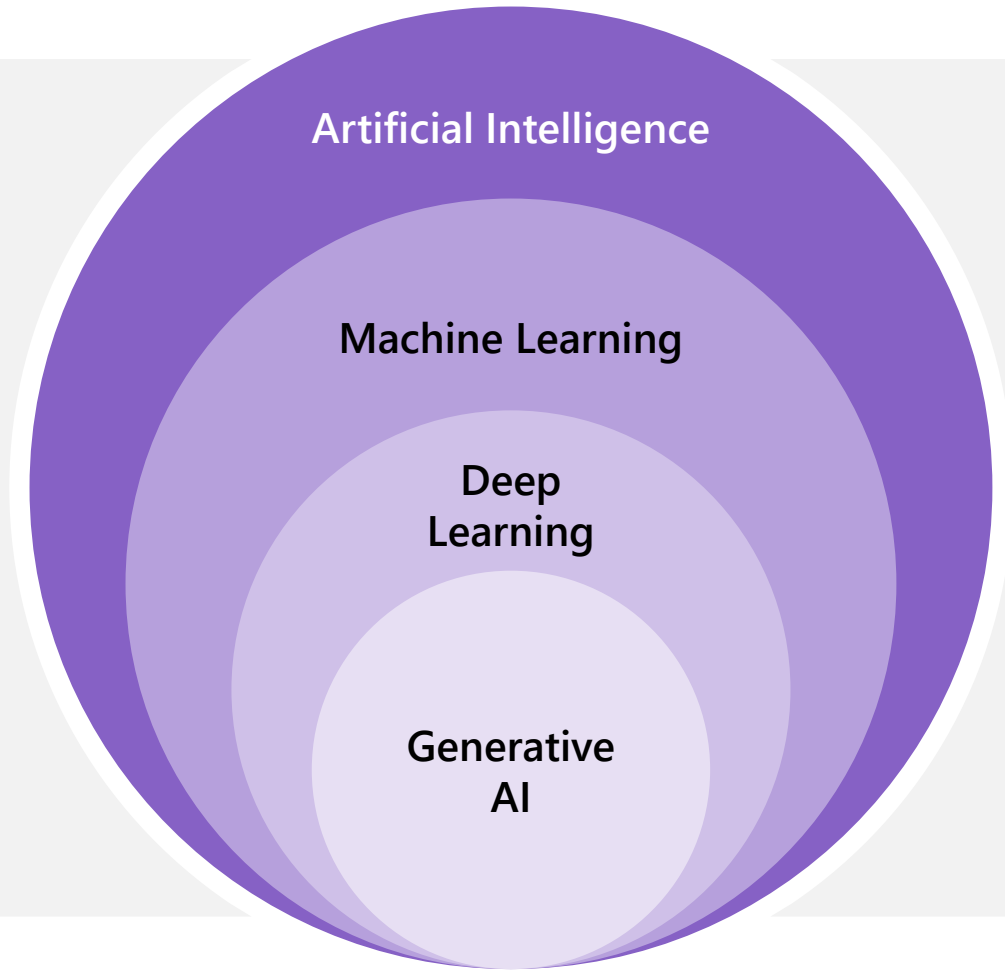


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Created using Dall-E 3 (Prompt: „a group of people gathering around to create innovative AI products. They are speaking to each other “)

# The journey continues with generative AI



1956

## Artificial Intelligence

The field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence.

1997

## Machine Learning

Subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions.

2012

## Deep Learning

A machine learning technique in which layers of neural networks are used to process data and make **decisions**.

2021

## Generative AI

Create new written, visual, and auditory content given prompts or existing data.

# Microsoft and OpenAI partnership



Ensure that artificial  
general intelligence  
(AGI) benefits humanity



Empower every person  
and organization on the  
planet to achieve more

## Azure OpenAI Service

**GPT-4 &  
GPT-3.5-Turbo**

Text

**Chat Completions**

Conversation

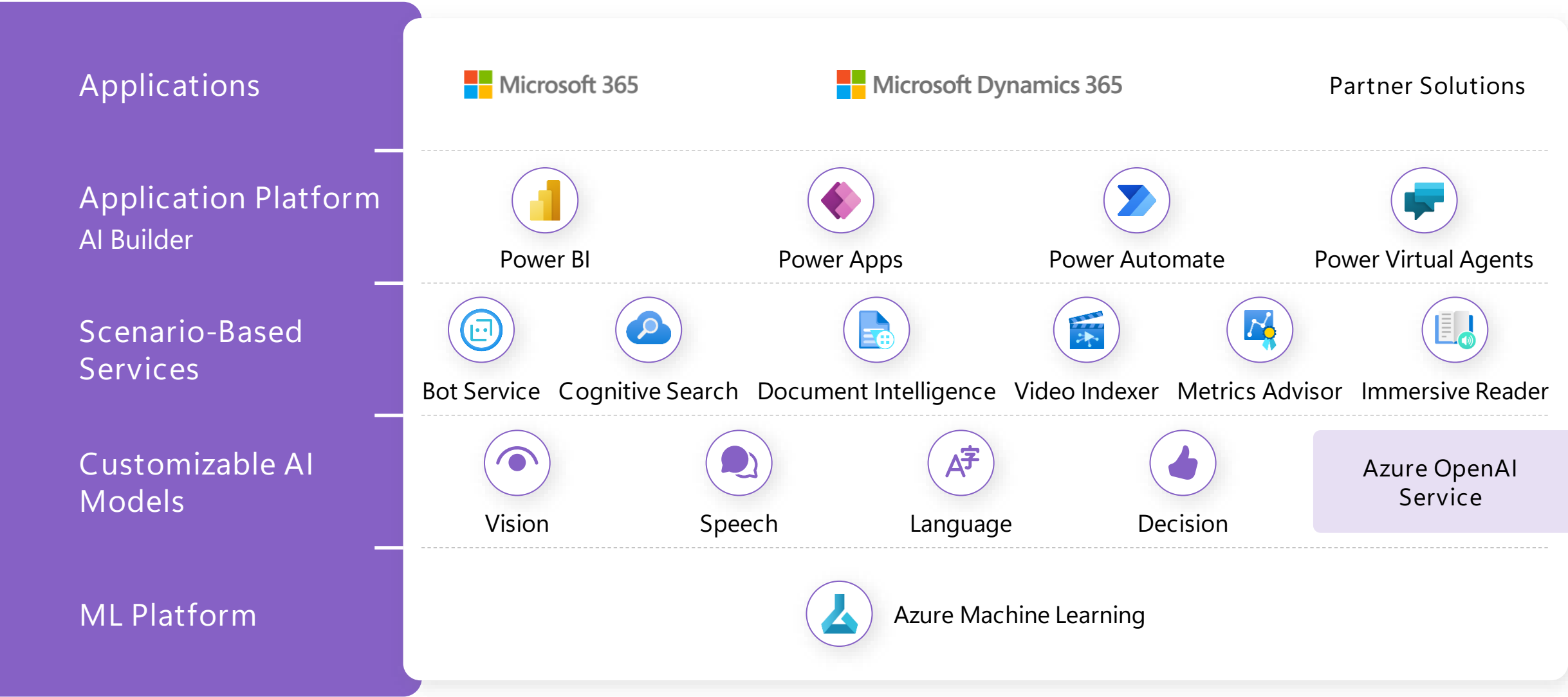
**DALL·E 2**

Image

**Whisper**

Transcription &  
Translation

# Microsoft is powered by Azure AI



# A copilot for every Microsoft Cloud experience

## Microsoft 365 Copilot

Empower everyone with a copilot that works alongside you

## Dynamics 365 Copilot

Specialized copilots for every role and function

## Copilot in Power Platform

Imagine it, describe it, and Power Platform builds it

## Microsoft Security Copilot

Defend at machine speed with Microsoft Security Copilot

## Windows Copilot

The first centralized AI assistance on a platform

## GitHub Copilot

Increase developer productivity to accelerate innovation

# OpenAI is not a knowledge base / search engine

Classify Microsoft, UBS, SAP, Vodafone, FedEx and Zurich Insurance into their verticals. Also print the revenue for 2020. Print it as COMPANY; VERTICAL; REVENUE. Show revenue as \$x.xxbn

Microsoft; Technology; \$125.84bn  
UBS; Financial Services; \$45.47bn  
SAP; Technology; \$31.20bn  
Vodafone; Telecommunications; \$21.61bn  
FedEx; Logistics; \$67.00bn  
Zurich Insurance; Insurance; \$66.60bn

Numbers from  
language model

Classify Microsoft, UBS, SAP, Vodafone, FedEx and Zurich Insurance into their verticals. Also print the revenue for 2020. Print it as COMPANY; VERTICAL; REVENUE. Show revenue as \$x.xxbn

Microsoft; Technology; \$143.02bn  
UBS; Banking; \$46.76bn  
SAP; Technology; \$29.12bn  
Vodafone; Telecommunications; \$21.12bn  
FedEx; Logistics; \$69.20bn  
Zurich Insurance; Insurance; \$44.37bn

Ankara is inland,  
no ferry

Tell me the advantages of the ferry connection between Ankara and Istanbul.

1. Cost-Effective: Taking the ferry between Ankara and Istanbul is a cost-effective way to travel between the two cities. It is much cheaper than taking a train or a plane.
2. Convenient: The ferry connection between Ankara and Istanbul is a convenient and reliable. It runs regularly throughout the day, making it easy to plan your trip.
3. Enjoyable: Taking the ferry between Ankara and Istanbul is a great way to enjoy the scenery along the way. You can sit back and relax as you take in the views of the two cities and the surrounding countryside.
4. Time-Saving: Taking the ferry between Ankara and Istanbul is a time-saving option. It takes less time than driving or taking the train, so you can reach your destination faster.
5. Environmentally Friendly: Taking the ferry between Ankara and Istanbul is an environmentally friendly way to travel. It does not produce any emissions, making it a much more sustainable option than other forms of transportation.

GPT-4's got it!

Model: gpt-3.5-turbo

What is the advantage of taking a ferry from Ankara to Istanbul? Few concise bullet points please.

< 3 / 3 >

Sure, here are some of the advantages of taking a ferry from Ankara to Istanbul:

- Convenience: Taking a ferry can be more convenient than traveling by road or air, as it eliminates the need for additional transfers and eliminates the need to go through security checks.
- Scenic route: Ferries offer a scenic route with views of the coastline and countryside that can be enjoyed from the comfort of the ferry.

Model: GPT-4

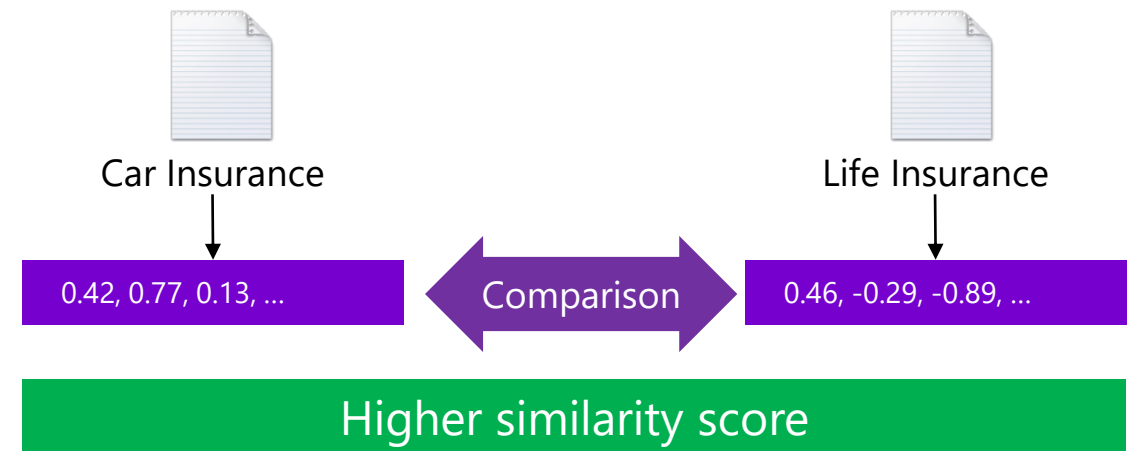
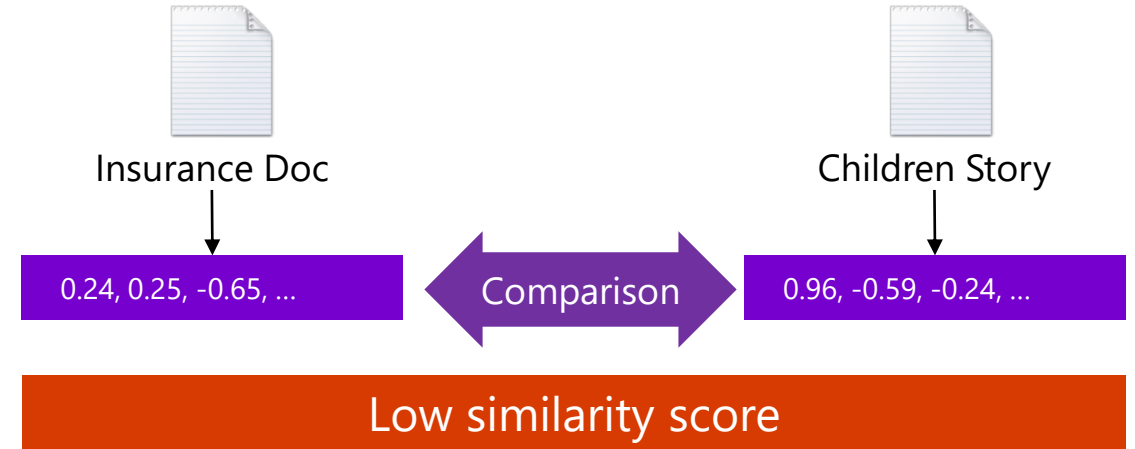
What is the advantage of taking a ferry from Ankara to Istanbul?

There is no direct ferry service from Ankara to Istanbul, as Ankara is an inland city and not located on the coast. The primary means of transportation between Ankara and Istanbul are by road, rail, or air.

However, if you are interested in incorporating a ferry ride into your travel, you can take a bus or train from Ankara to a coastal city, such as Bursa, Yalova, or Bandirma, and then take a ferry to Istanbul. The advantage of this approach is that you get to enjoy a scenic ferry ride

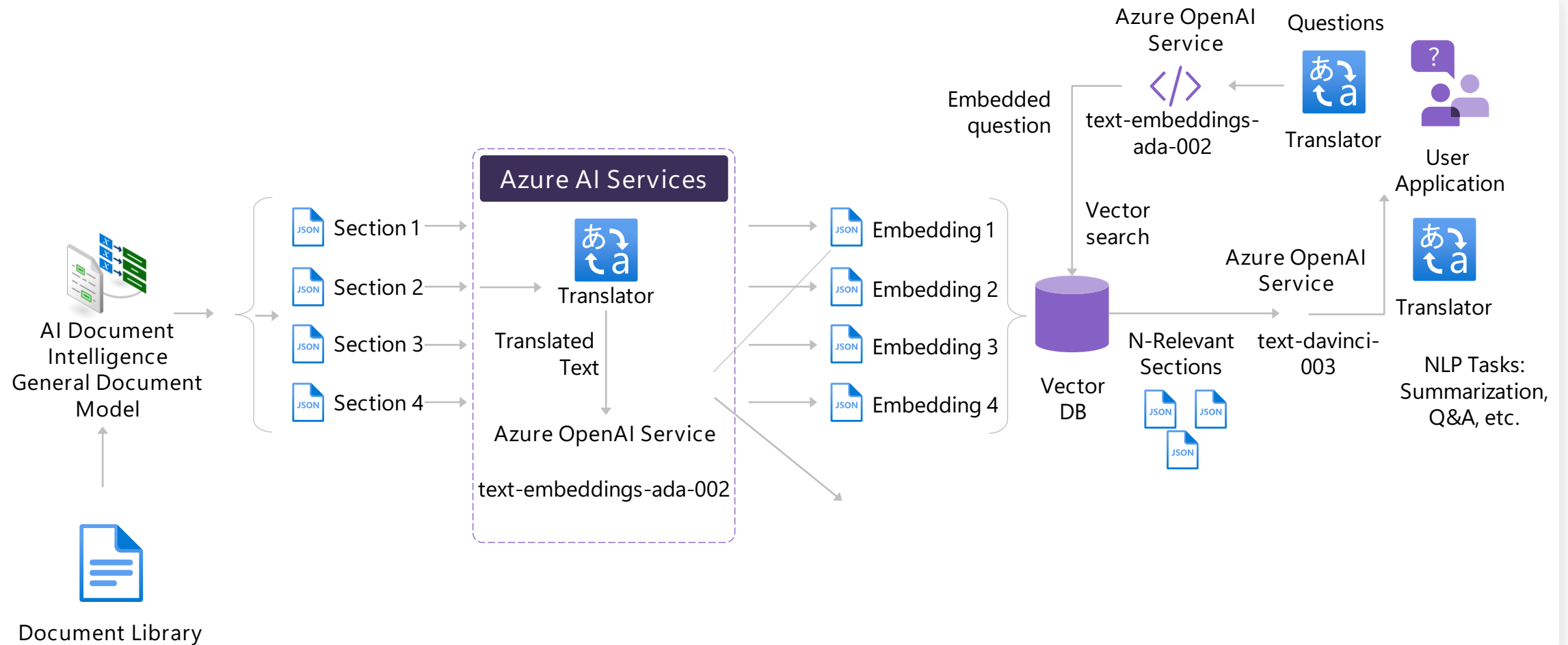
# OpenAI Embeddings

- Dense representation of **semantic meaning** of a piece of text
  - Allows to compare how similar two pieces of text are
  - Same idea as word2vec and others, but significantly better at semantic capturing
- A concept to build ChatGPT-like experiences on private data



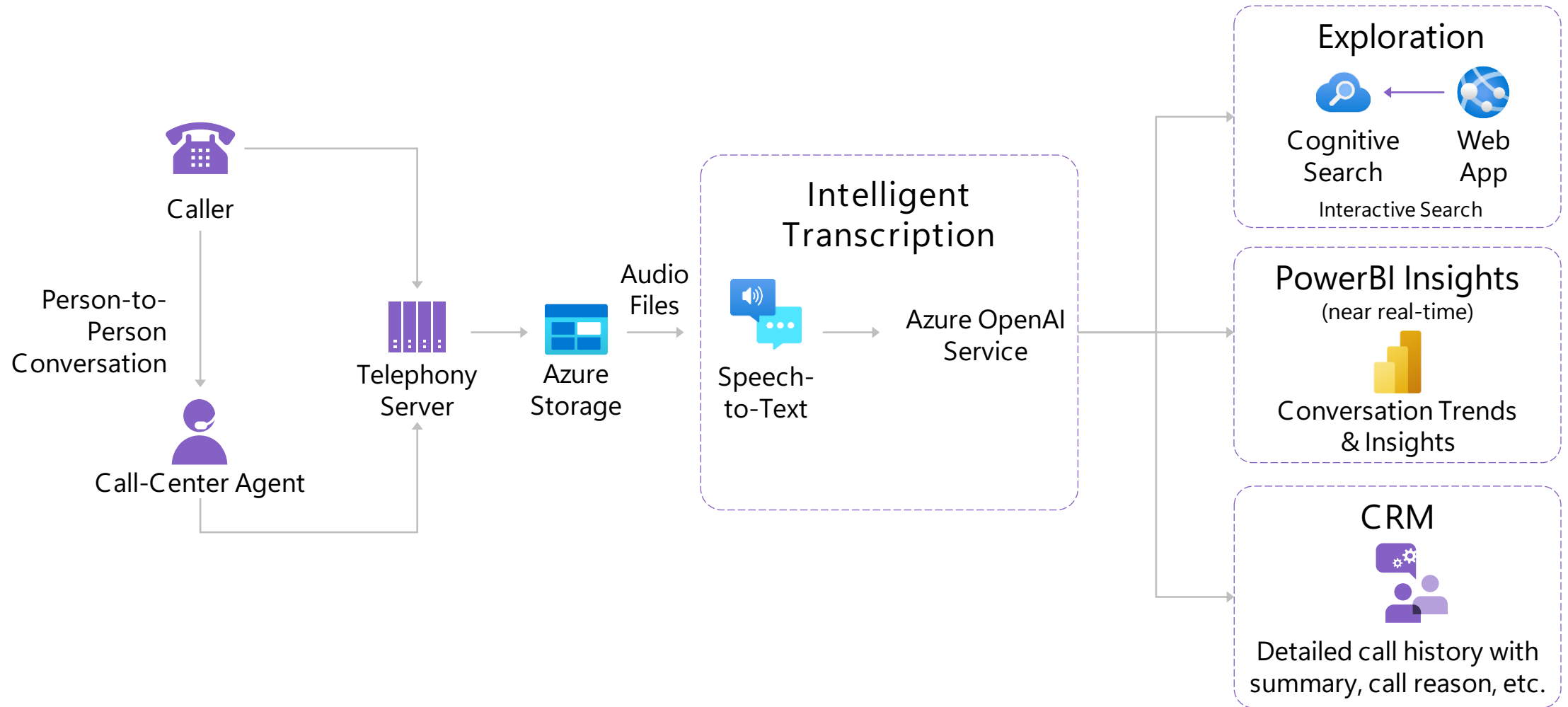


# Document Embedding with Translation





# Contact Center Analytics

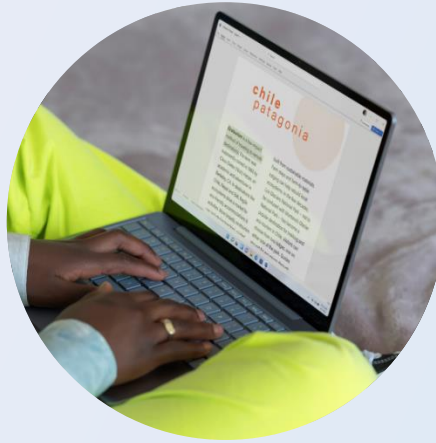


# Top 3 Azure OpenAI Use Cases



## Virtual Assistant

Index knowledge base and give generative answers to arbitrary questions



## Document Intelligence

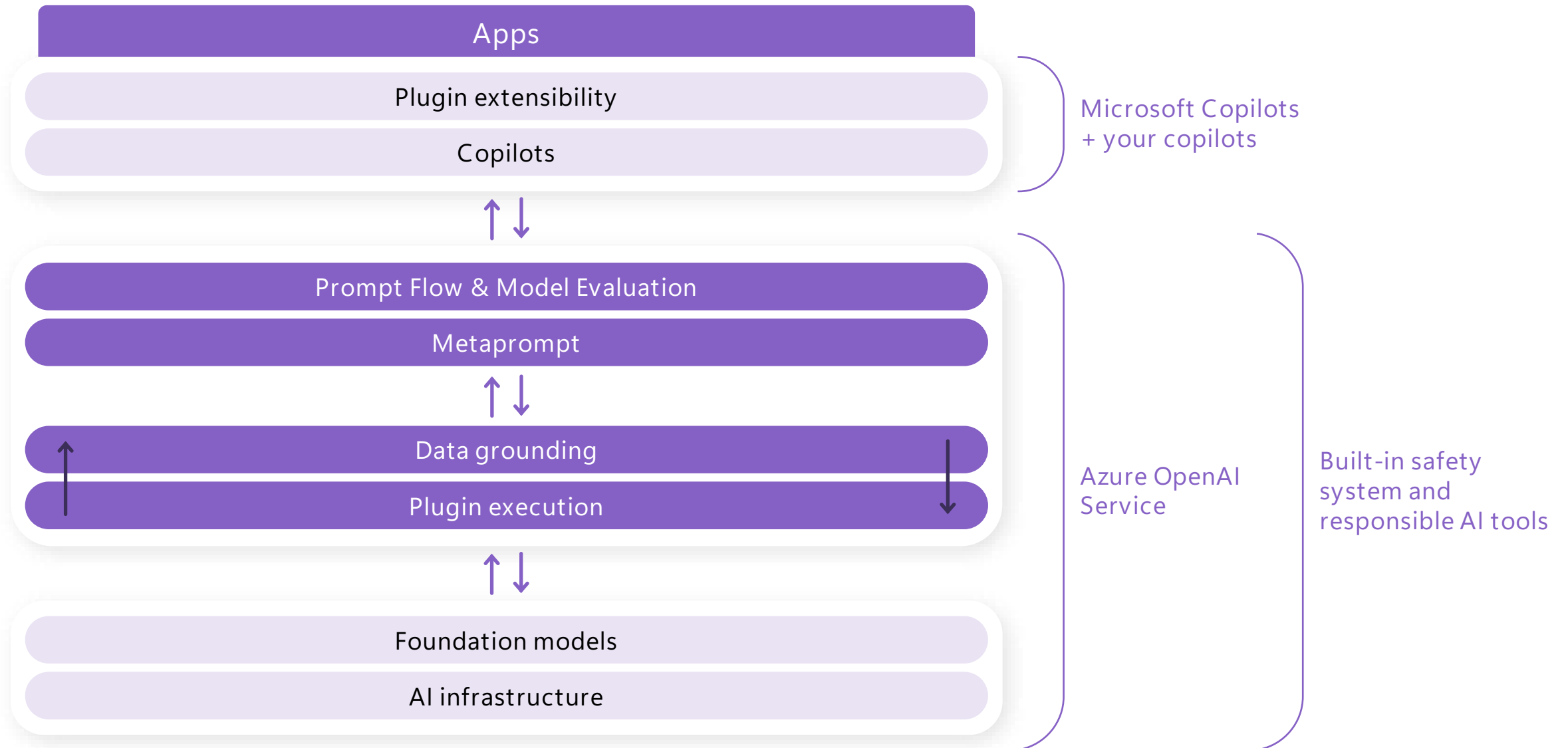
Information extraction, classification, summarization  
Extract complex entities from documents and their relationship



## Contact Center

Summarization, information extraction from call center calls and chat conversations

# Copilot stack



# Microsoft Azure Cloud

## Runs on trust

**Your data is your data**

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Data is stored encrypted in your Azure subscription

**Your data from any fine-tuning is not used to train the foundation AI models**

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Azure OpenAI Service provisioned in your Azure subscription

Model fine tuning stays in your Azure subscription and never moves into the foundation AI models

**Your data is protected by the most comprehensive enterprise compliance and security controls**

Encrypted with Customer Managed Keys

Private Virtual Networks, Role Based Access Control

Soc2, ISO, HIPPA, CSA STAR Compliant

# Thank you



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Created using Dall-E 3 (Prompt: „a person presenting their AI solution with a group of people backing them up. There are many people in the audience totally interested in what is being presented “)