

Building an end-to-end AI solution for your startup





Gabriela de Queiroz
Director of AI



Aishwarya Srinivasan
Senior AI Advocate

Microsoft for Startups

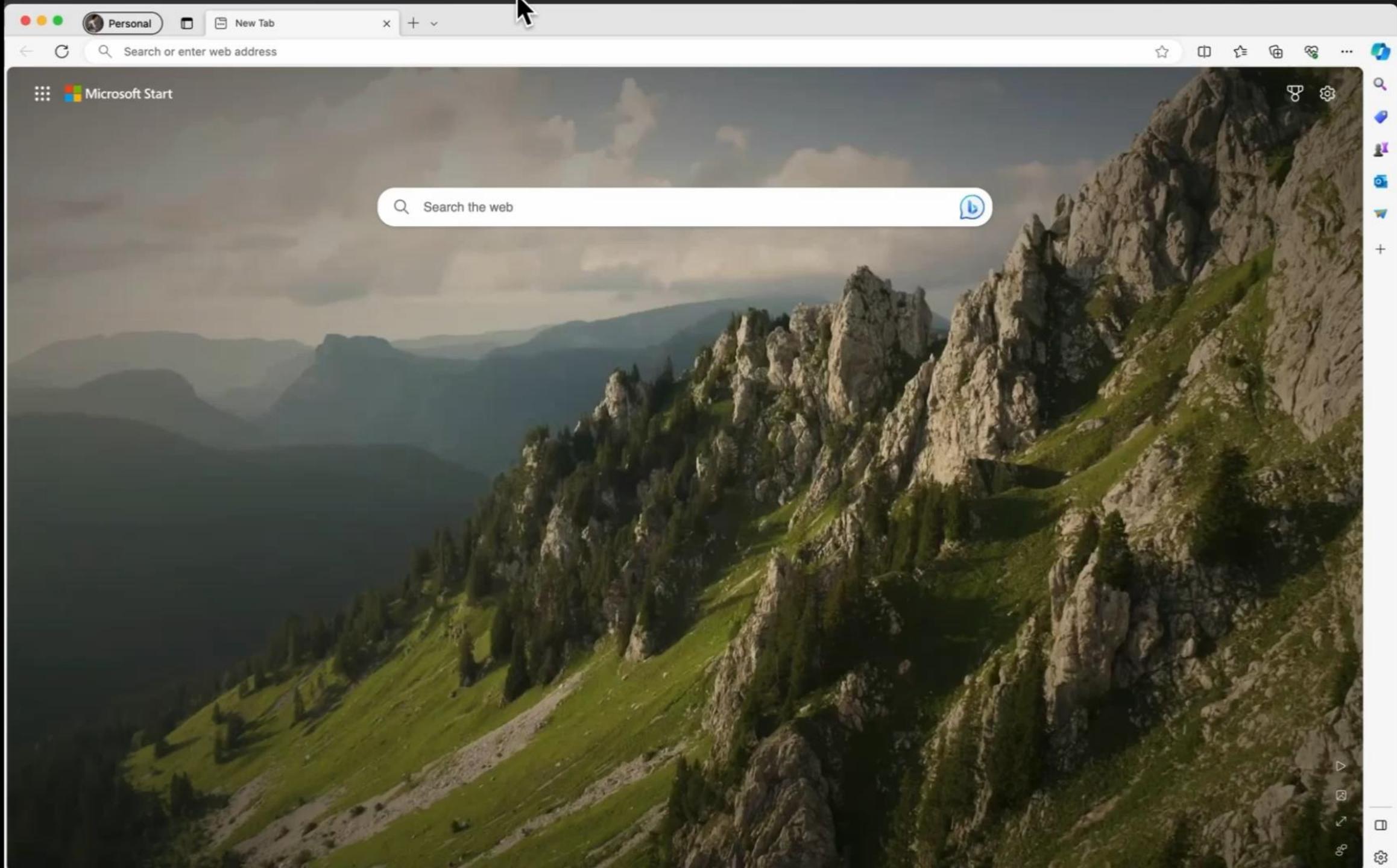
Founders Hub

Sign up in minutes at
startups.microsoft.com



- Up to \$150k in free credits to Azure, including Azure OpenAI Service
- \$2,500 Free OpenAI credits
- 1:1 guidance on business and technical challenges from experts at Microsoft
- Free access to development and productivity tools like GitHub, Microsoft 365, LinkedIn Premium, and more





Personal

soccer world cup - Search

FIFA World Cup - Wikipedia

List of FIFA World Cup winning players

https://en.wikipedia.org/wiki/List_of_FIFA_World_Cup_winning_players

WIKIPEDIA The Free Encyclopedia

Search Wikipedia

Search

Create account Log in

List of FIFA World Cup winning players

10 languages

Contents [hide]

(Top)

Winning players

By year

See also

References

External links

Article Talk

Read Edit View history Tools

From Wikipedia, the free encyclopedia

This page is a list of all players who have won the men's FIFA World Cup tournament since its inception in 1930.

Participating teams have to register squads for each edition of the World Cup, which consisted of 22 players until 1998, of 23 players from 2002 to 2018, and of 26 players in 2022. Since 1978, winners' medals are given to all members of the winning squads. Prior to that, only players who were on the pitch during the final matches (or the *de facto* final in 1950) received medals. FIFA decided in 2007 to retroactively award winners' medals to all members of the winning squads between 1930 and 1974.^[1]

World Cup winning players and managers are among a selected few who are officially allowed to touch the **FIFA World Cup Trophy** with bare hands, the group also including heads of state and FIFA officials.^[2]

Winning players [edit]

A total of 471 players have been in the winning team in the World Cup. Brazil's Pelé is the only one to have won three times, while another 20 have won twice. Only Daniel Passarella (ARG) and players from Brazil and Italy have won the world Cup more than once.

- No player has won two World Cups both as captain. Italy's Giuseppe Meazza (1938), Brazil's Bellini (1958), Mauro (1962) and Cafu (2002), and Argentina's Daniel Passarella (1978) lifted the trophy once as captain, but were not captain for the other tournament they won. Argentina's Diego Maradona (1986, 1990) and Lionel Messi (2014, 2022), Brazil's Dunga (1994, 1998), and France's Hugo Lloris (2018, 2022) captained their sides in two final matches, but only won on one occasion, while West Germany's Karl-Heinz Rummenigge (1982, 1986) lost both finals as captain.
- Brazil's Pelé and Vavá are the only two players to score in two finals for winning teams. West Germany's Paul Breitner (1974, 1982) and France's Zinedine Zidane (1998, 2006) and Kylian Mbappé (2018, 2022) also scored in two finals, but only won on their first occasions.
- Cafu is the only player to appear in three finals: 1994, 1998 and 2002.
- Luis Monti is the only player to play in two finals for different national teams. He appeared in the 1930 final for Argentina, who lost, and the 1934 final for Italy, who won. Attilio Demaria was also in Argentina's 1930 squad and Italy's 1934 squad, but appeared in neither final.
- Brazil's Mário Zagallo, having triumphed in 1958 and 1962 as player, went on to win as the manager in 1970, becoming the first to win both as player and manager. West Germany's Franz Beckenbauer is the second, winning



Pelé is the only player to have won three world cups- appearing in the Brazilian squad in 1958, 1962 and 1970.

Chat Compose Insights

Summarize this article in 5 bullet points

- Zinedine Zidane:** The French maestro scored in two finals (1998, 2006), winning on his first occasion ^[1].
- Cafu:** The Brazilian right-back is the only player to appear in three finals: 1994, 1998, and 2002 ^[1].
- Miroslav Klose:** The German striker is the only player to have won four World Cup medals: 2002 (silver), 2006, 2010 (both bronze), and 2014 (gold) ^[1].

These players have left an indelible mark on the World Cup with their performances and contributions to their respective teams.

Learn more: 1. en.wikipedia.org +9 more

2 of 30 *

Who is the highest goal scorer in World Cup history?

What are some memorable moments of the World Cup?

Which country has won the most number of matches in World Cup?

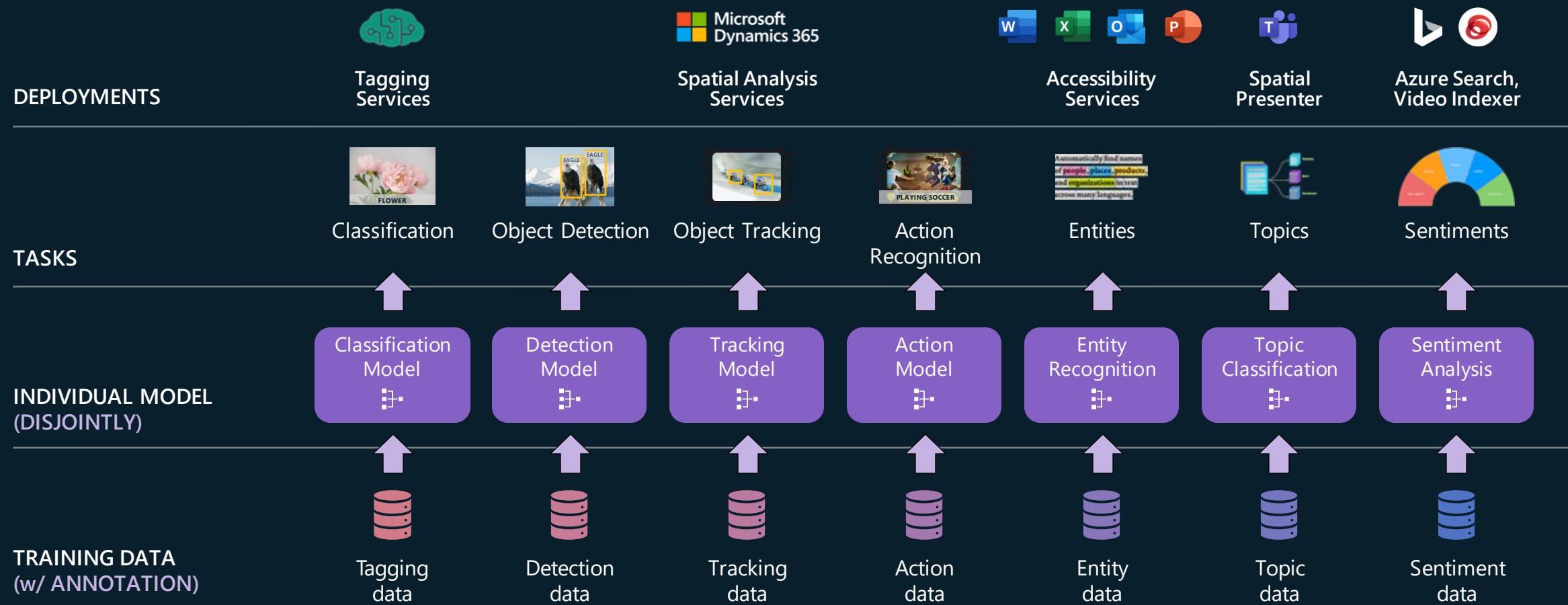
Ask me anything...

0/4000

What are Foundation Models?

Traditional model development

High cost and slow deployment—each service is trained disjointly



Foundation models

(includes Large Language Models)

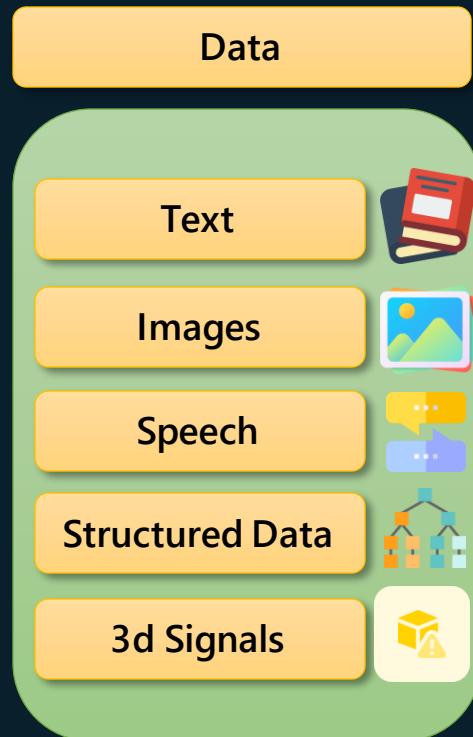
One model trained on a huge amount of data and adapted to many applications

Adapted from: Stanford Centre for Research on Foundation Models



This Photo by Unknown Author is licensed under CC BY

Foundation Models



Training

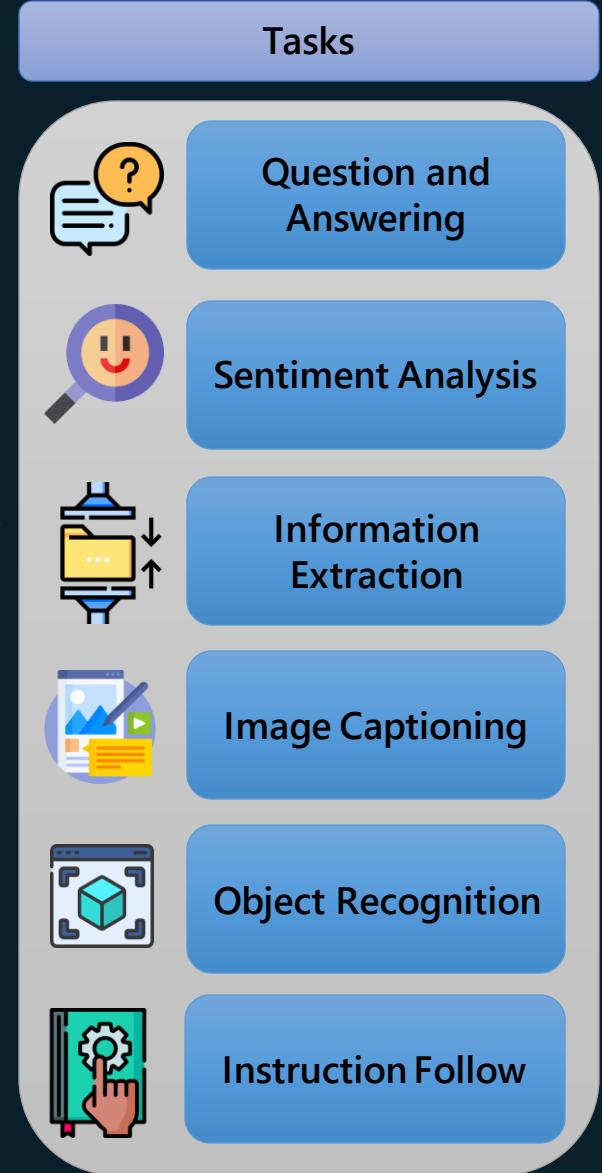


Foundation Model

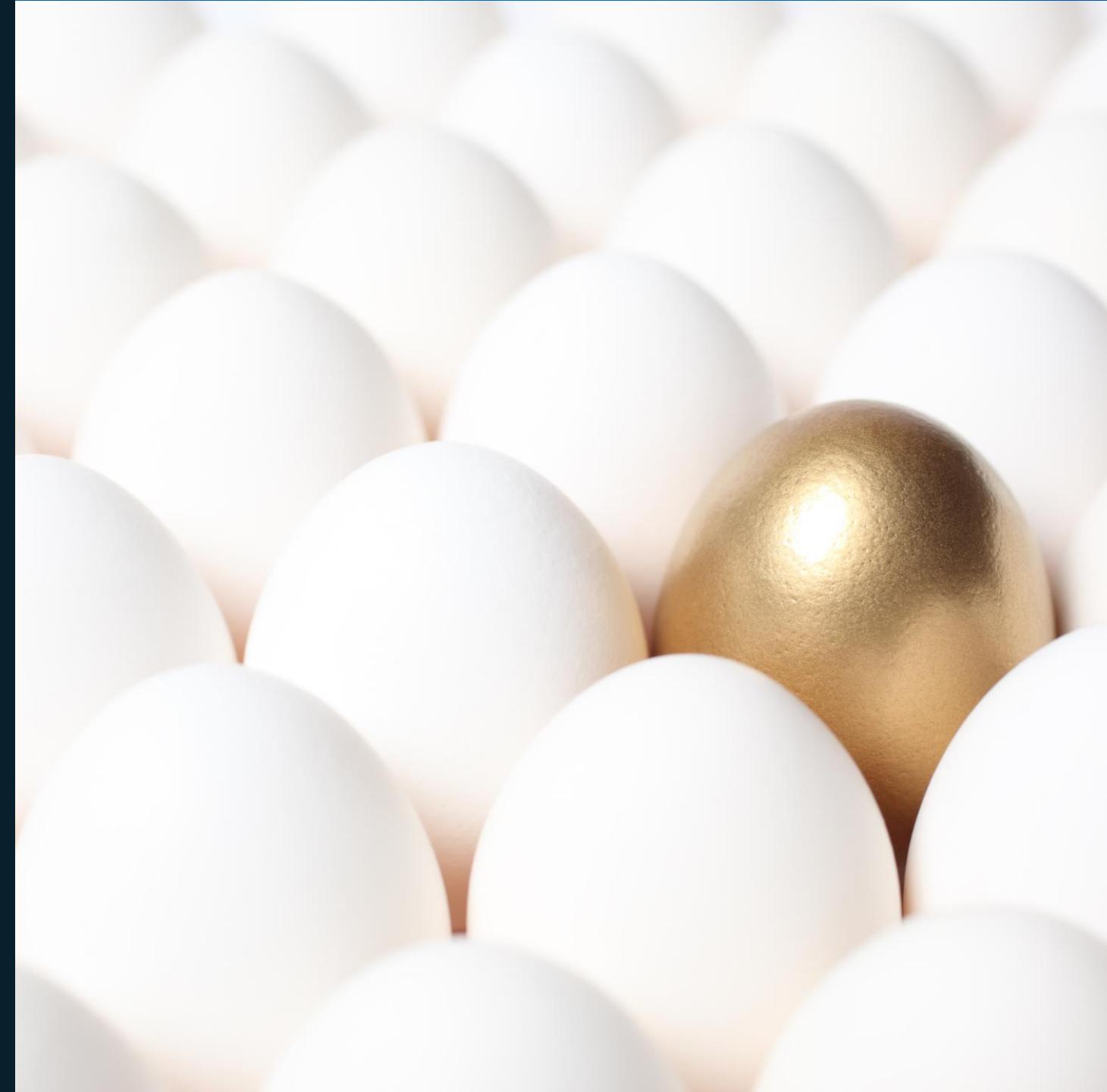
Transformer Model



Adaptation



Why are Foundation Models special?



2 example models

GPT-3 (2020)

50,257 vocabulary size
2048 context length
175B parameters
Trained on 300B tokens

Model Name	n_{params}	n_{layers}	d_{model}	n_{heads}	d_{head}	Batch Size	Learning Rate
GPT-3 Small	125M	12	768	12	64	0.5M	6.0×10^{-4}
GPT-3 Medium	350M	24	1024	16	64	0.5M	3.0×10^{-4}
GPT-3 Large	760M	24	1536	16	96	0.5M	2.5×10^{-4}
GPT-3 XL	1.3B	24	2048	24	128	1M	2.0×10^{-4}
GPT-3 2.7B	2.7B	32	2560	32	80	1M	1.6×10^{-4}
GPT-3 6.7B	6.7B	32	4096	32	128	2M	1.2×10^{-4}
GPT-3 13B	13.0B	40	5140	40	128	2M	1.0×10^{-4}
GPT-3 175B or "GPT-3"	175.0B	96	12288	96	128	3.2M	0.6×10^{-4}

Table 2.1: Sizes, architectures, and learning hyper-parameters (batch size in tokens and learning rate) of the models which we trained. All models were trained for a total of 300 billion tokens.

Training: (rough order of magnitude to have in mind)

- $O(1,000 - 10,000)$ V100 GPUs
- $O(1)$ month of training
- $O(1-10)$ \$M

LLaMA (2023)

32,000 vocabulary size
2048 context length
65B parameters
Trained on 1-1.4T tokens

params	dimension	n_{heads}	n_{layers}	learning rate	batch size	n_{tokens}
6.7B	4096	32	32	$3.0e^{-4}$	4M	1.0T
13.0B	5120	40	40	$3.0e^{-4}$	4M	1.0T
32.5B	6656	52	60	$1.5e^{-4}$	4M	1.4T
65.2B	8192	64	80	$1.5e^{-4}$	4M	1.4T

Table 2: Model sizes, architectures, and optimization hyper-parameters.

Training for 65B model:

- 2,048 A100 GPUs
- 21 days of training
- \$5M

Building a POC



This is how you usually
start





"Teddy bear on a skateboard, 4k"



(Raining ambience)



(Raining street ambience)



(Raining, street, skateboard)



"A toy on the street sitting on a board"

"Raining, rain, moderate"

CoDi can jointly generate any-to-any combinations from video, image, audio, and text, via composable diffusion.

Text + Image + Audio → Video + Audio

"Teddy bear on a skateboard, 4k,
high resolution"







Ensure that artificial general intelligence (AGI) benefits humanity



Empower every person and organization on the planet to achieve more

GPT-3.5 and GPT-4

Text

ChatGPT

Conversation

Codex

Code

DALL·E 2

Images

Azure



Azure provides a broad range of services that enable you to build rich applications and solutions for the cloud in your preferred language.

Azure provides end-to-end developer experience that helps you create reliable, global, and secure applications faster

Cosmic Possibilities: Integration Options for Azure OpenAI in the Azure Universe





Azure AI Studio

Unified user interface (UI), SDK, CLI

Azure AI Services

Vision
Speech
Language / Translation
Document Intelligence
Azure OpenAI
Content Safety

Azure AI Search

Retrieval Augmented Generation (RAG)
Semantic Vector

Azure Machine Learning

Ground Evaluate Deploy Monitor
MLOps / LLMOps
Responsible AI Dashboard

One place to build and deploy AI solutions

Turing
Florence

GPT-4 and GPT 3.5 Turbo
Whisper

DALL-E
Embeddings

Meta Llama 2
Hugging Face

Azure Infrastructure

Personal + Bing Chat with GPT-4

https://www.bing.com/search?q=Bing+AI&showconv=1

Microsoft Bing SEARCH CHAT

Gabriela 9138 \$0.00 Recent activity

Bing is your AI-powered copilot for the web

Compare What are the top three vehicles for a family of six on a budget?

Shop I need a gift for my friend who likes to hike in cold weather

Chat Why do people fly in their dreams?

Organize Create a table that analyzes public funding for the arts compared to GDP

Code Write a C# program to check if a number is prime

Travel What's a good budget hotel chain that usually has a pool?

Write Summarize the main points of the latest research on AI

Preview Bing is powered by AI, so surprises and mistakes are possible. Please share feedback so we can improve! [Terms](#) | [Privacy](#)

Choose a conversation style Preview

More Creative More Balanced More Precise

Sure thing, I'm ready for a new challenge. What can I do for you now?

? Teach me about the moon landing I want to learn a new skill Why do humans need sleep?

New topic Ask me anything... 0

0/4000 Feedback

Recent activity

- FIFA World Cup Summary Yesterday
- FIFA World Cup Yesterday
- FIFA World Cup Yesterday
- Summary of FIFA World Cup Yesterday
- FIFA World Cup Yesterday
- Sports and Fantasy Coverage Yesterday
- ESPN, ESPN+, Fantasy Sports, Sports Co Yesterday
- Generate page summary Yesterday
- Generate page summary Yesterday
- Pixar style dog image Yesterday

<https://oai.azure.com/portal>

Azure AI | Azure OpenAI Studio

Playground

Chat

Completions

DALL-E (Preview)

Management

Deployments

Models

Data files

Quotas

Content filters (Preview)

Welcome to Azure OpenAI service

Explore the generative AI models, craft unique prompts for your use cases, and fine-tune select models.

 **No deployment detected**
To get started you will need to create a new deployment, then you can select an example below, and create a custom model based on one of the available presets, or create a custom model.
[Create new deployment](#)

Get started

 **Text generation**
Chat playground
Design a customized AI assistant using ChatGPT. Experiment with GPT-3.5-Turbo and GPT-4 models.
[Try it now](#)

 **Text generation**
Completions playground
Experiment with completions models for use cases such as summarization, content generation, and classification.
[Try it now](#)

 **Image generation**
DALL-E playground
PREVIEW
Generate unique images by writing descriptions in natural language.
[Try it now](#)

 **Text generation**
Bring your own data
PREVIEW
Connect and ground your data. Deploy to a web app or Power Virtual Agent bot.
[Try it now](#)

Try out common examples

[Customer support agent](#) [Writing assistant](#) [Summarize an article](#) [Create cover art](#)

Privacy & cookies

Gabriela de Queiroz
gdq-oai (East US, S0)

Vision Studio

<https://portal.vision.cognitive.azure.com/>

Vision Studio



Video Retrieval and Summary
Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

[Try it out](#)



Recognize products on shelves
Preview

Identify products on shelves, gaps in product availability, and compliance for planograms.

[Try it out](#)



Customize models with images
Preview

Create custom image classification and object detection models with images using Vision Studio and Azure ML.

[Start a project](#)



Search photos with image retrieval
Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

[Try it out](#)



Add dense captions to images
Preview

Generate human-readable captions for all important objects detected in your image.

[Try it out](#)



Remove backgrounds from images
Preview

Easily remove the background and preserve foreground elements in your image.

[Try it out](#)



Add captions to images
Preview

Generate a human-readable sentence that describes the content of an image.

[Try it out](#)



Detect common objects in images
Preview

Recognize the location of objects of interest in an image and assign them a label.

[Try it out](#)



Extract text from images
Preview

Extract printed and handwritten style text from images and documents for supported languages.

[Try it out](#)



Extract common tags from images
Preview

Use an AI model to automatically assign one or more labels to an image.

[Try it out](#)



Create smart-cropped images
Preview

Create cropped image thumbnails based on the key areas of a larger image.

[Try it out](#)

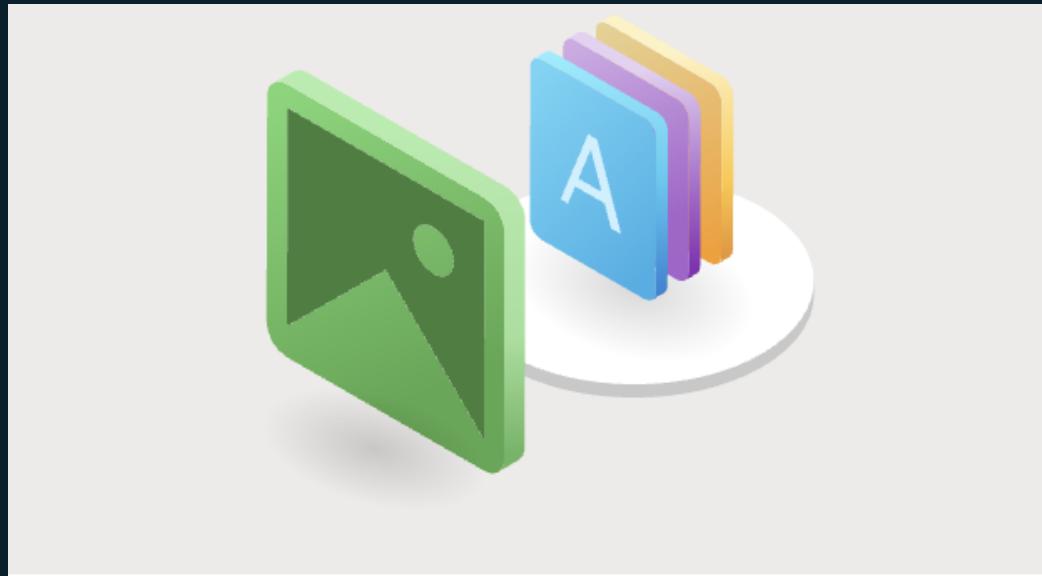


Detect faces in an image

Detect the location of one or more human faces in images, along with attributes such as pose, face mask and facial landmarks.

[Try it out](#)

Add dense captions to images



Add dense captions to images

Preview

Generate human-readable captions for all important objects detected in your image.

- It can create descriptions of multiple areas of interest within an image

Use one of your own files or choose from a sample below.



Drag and drop a file here
or
Browse for a file
or
Take a photo



Detected attributes [JSON](#)

A shelf of fruit and vegetables
A green apple on a white surface
A shelf of fruit and vegetables
A close up of an orange
A close up of a fruit
A close up of a tomato
A close up of a cucumber
A close up of two apples
A close up of tomatoes
A close up of a kiwi

A green apple on a white surface



Detected attributes [JSON](#)

A shelf of fruit and vegetables
A green apple on a white surface
A shelf of fruit and vegetables
A close up of an orange
A close up of a fruit
A close up of a cucumber
A close up of two apples
A close up of a tomato
A close up of tomatoes
A close up of a kiwi

A green apple on a white surface



Detected attributes [JSON](#)

A shelf of fruit and vegetables
A green apple on a white surface
A shelf of fruit and vegetables
A close up of an orange
A close up of a fruit
A close up of a cucumber
A close up of two apples
A close up of a tomato
A close up of tomatoes
A close up of a kiwi

Detected attributes [JSON](#)

```
{  
  "apim-request-id": "a64d07fe-9e5c-4ec5-9787-f0d584b03a44",  
  "content-length": "1267",  
  "content-type": "application/json; charset=utf-8",  
  "denseCaptionsResult": {  
    "values": [  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.6874123215675354,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      },  
      {  
        "text": "a green apple on a white surface",  
        "confidence": 0.7118988037109375,  
        "boundingBox": {  
          "x": 743,  
          "y": 0,  
          "w": 239,  
          "h": 190  
        }  
      },  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.695424497127533,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      }  
    ]  
  }  
}
```

<<

Azure AI Studio

[Privacy & cookies](#) Azure OpenAI

Playground

 Chat Completions DALL-E (Preview)

Management

 Deployments Models Data files Quotas Content filters (Preview)

Welcome to Azure OpenAI service

Explore the generative AI models, craft unique prompts for your use cases, and fine-tune select models.



No deployment detected

To get started you will need to create a new deployment, then you can select an example below, and create a custom model based on one of the available presets, or create a custom model.

[Create new deployment](#)

Get started



Chat playground

Design a customized AI assistant using ChatGPT. Experiment with GPT-3.5-Turbo and GPT-4 models.

[Try it now](#)

Completions playground

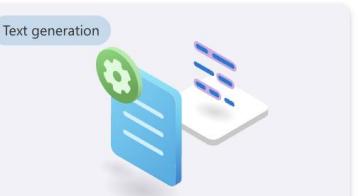
Experiment with completions models for use cases such as summarization, content generation, and classification.

[Try it now](#)

DALL-E playground

PREVIEW

Generate unique images by writing descriptions in natural language.

[Try it now](#)

Bring your own data

PREVIEW

Connect and ground your data. Deploy to a web app or Power Virtual Agent bot.

[Try it now](#)

Try out common examples

Customer support agent

Get started with a sample chat setup for a customer support agent scenario

[Try it now](#)

Writing assistant

Get started with a sample chat setup for marketing content creation

[Try it now](#)

Summarize an article

Get started with abstractive summarization of a news article

[Try it now](#)

Create cover art

Unleash your creativity by generating creative images for cover art and other commercial use cases

[Try it now](#)

Playground

Chat

Completions

DALL-E (Preview)

Management

Deployments

Models

Data files

Quotas

Content filters (Preview)

Assistant setup



System message

Add your data (preview)

Save changes

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

Select a template

Chat session

Clear chat

Playground Settings

View code

Show raw JSON



Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)



Chat playground

[Deploy to](#)[Import setup](#) [Export setup](#) [Show panels](#)

Assistant setup

[System message](#)[Add your data \(preview\)](#)[Save changes](#)

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

[Select a template](#)

System message (i)

You are an AI assistant that helps people find food and recipes from what they have in their fridge. The input is a json file. Please share healthy recipes only.

A green apple on a white surface



Detected attributes JSON

A shelf of fruit and vegetables
A green apple on a white surface
A shelf of fruit and vegetables
A close up of an orange
A close up of a fruit
A close up of a cucumber
A close up of two apples
A close up of a tomato
A close up of tomatoes
A close up of a kiwi

Detected attributes JSON

```
{  
  "apim-request-id": "a64d07fe-9e5c-4ec5-9787-f0d584b03a44",  
  "content-length": "1267",  
  "content-type": "application/json; charset=utf-8",  
  "denseCaptionsResult": {  
    "values": [  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.6874123215675354,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      },  
      {  
        "text": "a green apple on a white surface",  
        "confidence": 0.7118988037109375,  
        "boundingBox": {  
          "x": 743,  
          "y": 0,  
          "w": 239,  
          "h": 190  
        }  
      },  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.695424497127533,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      }  
    ]  
  }  
}
```



Chat session



Clear
chat



Playground
Settings



View
code

Show raw
JSON

```
{  
  "apim-request-id": "a64d07fe-9e5c-4ec5-9787-f0d584b03a44",  
  "content-length": "1267",  
  "content-type": "application/json; charset=utf-8",  
  "denseCaptionsResult": {  
    "values": [  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.6874123215675354,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      },  
      {  
        "text": "a green apple on a white surface",  
        "confidence": 0.7118988037109375,  
        "boundingBox": {  
          "x": 743,  
          "y": 0,  
          "w": 239,  
          "h": 190  
        }  
      },  
      {  
        "text": "a shelf of fruit and vegetables",  
        "confidence": 0.695424497127533,  
        "boundingBox": {  
          "x": 0,  
          "y": 0,  
          "w": 1256,  
          "h": 835  
        }  
      }  
    ]  
  }  
}
```

Chat session

 Clear chat

 Playground Settings

 View code

 Show raw JSON



```
        "width": 1256,  
        "height": 835  
    }  
}
```



Based on the contents of your fridge, here are some healthy recipes you can try:

1. **Fruit Salad:** This is a simple and healthy recipe to use up all your fruits. You can use the green apple, orange, and kiwi identified in your fridge. Simply cut all the fruits into small pieces and mix them in a bowl. You can also add a drizzle of honey or a squeeze of fresh lemon for an extra burst of flavor.
2. **Cucumber Tomato Salad:** This is a refreshing salad perfect for a light lunch or a side dish. Slice your cucumbers and tomatoes, add a little bit of olive oil, lemon juice, salt, and pepper. Toss everything together and serve.
3. **Apple and Orange Smoothie:** A quick and nutritious breakfast option. Blend a peeled orange and green apple together with a little bit of water or almond milk. You can also add a spoon of honey or a bit of ginger for an extra kick.
4. **Stuffed Tomatoes with Cucumber Salad:** Hollow out a few tomatoes and fill them with a salad made of diced cucumbers, a bit of olive oil, vinegar, and some fresh herbs like parsley or dill. This makes a great, light lunch option.
5. **Fruit Skewers:** Cut your apple, orange, and kiwi into chunks. Thread them onto skewers for a fun and healthy snack. You can serve this with a little bit of yogurt on the side for dipping.

Remember to wash all your fruits and vegetables thoroughly before using them. Enjoy your healthy meals!

Chat session

 Clear chat  Playground Settings  View code  Show raw JSON



where is the apple in the image?



The green apple in the image is located at coordinates x: 743, y: 0 with a width of 239 and height of 190. This is based on the bounding box information provided in the JSON file. The coordinates start from the top left corner of the image. So, the apple appears towards the right side at the top of the image.

...

Please use up, down left, top and so on instead of coordinates



The green apple is located towards the upper right side of the image.

...

<<

Azure AI Studio > Chat playground

[Privacy & cookies](#) Azure OpenAI

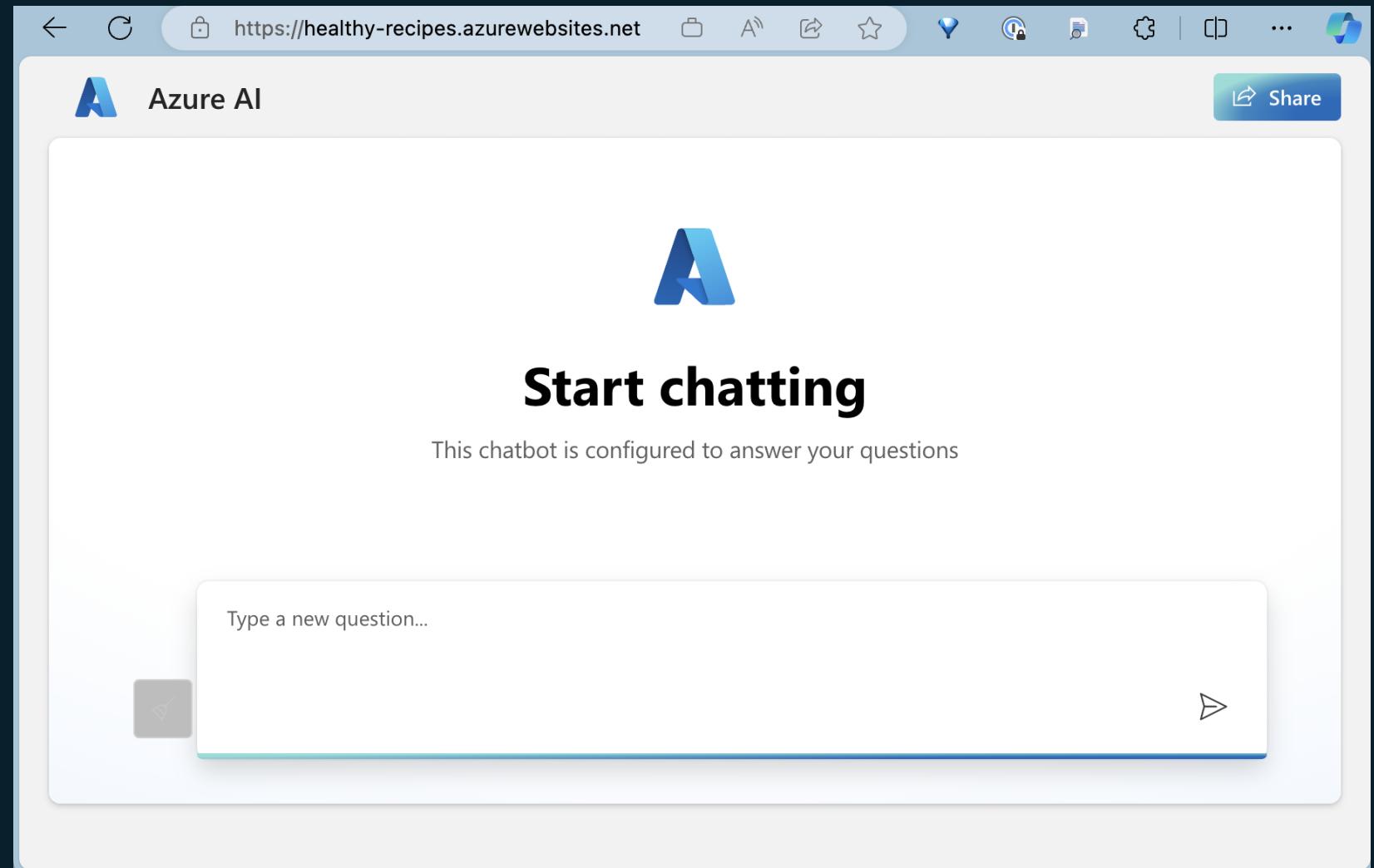
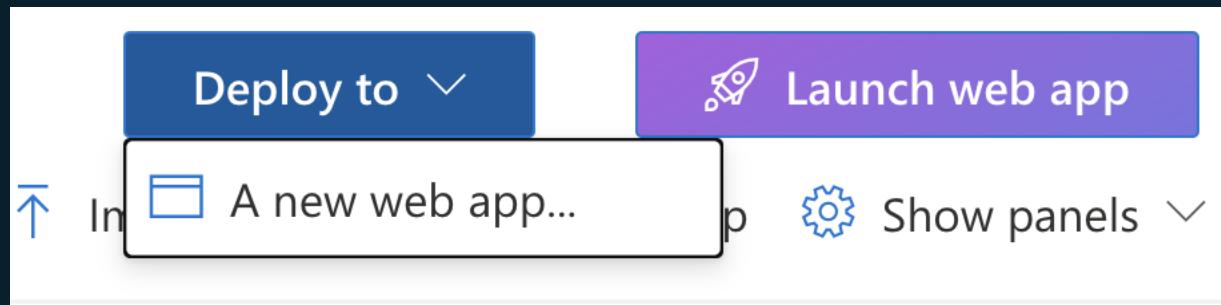
Playground

 Chat Completions DALL-E (Preview)

Management

 Deployments Models Data files Quotas Content filters (Preview)

Deploy the app

A screenshot of a web browser displaying a chatbot interface. The address bar shows the URL 'https://healthy-recipes.azurewebsites.net'. The page header says 'Azure AI'. The main content features a large blue 'A' logo, the text 'Start chatting', and the subtext 'This chatbot is configured to answer your questions'. At the bottom, there is a text input field with the placeholder 'Type a new question...' and a send button with a right-pointing arrow.

What can you do?

As an AI assistant, I can help you find healthy recipes based on the ingredients you have in your fridge. You just need to provide me with a json file that contains a list of your available ingredients. Then, I will suggest you some healthy recipes you can make with those ingredients. I can also provide you with the nutritional information of each recipe, if available..

AI-generated content may be incorrect

Vision Studio

**Video Retrieval and Summary**

Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

[Try it out](#)**Recognize products on shelves**

Preview

Identify products on shelves, gaps in product availability, and compliance for planograms.

[Try it out](#)**Customize models with images**

Preview

Create custom image classification and object detection models with images using Vision Studio and Azure ML.

[Start a project](#)**Search photos with image retrieval**

Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

[Try it out](#)**Add dense captions to images**

Preview

Generate human-readable captions for all important objects detected in your image.

[Try it out](#)**Remove backgrounds from images**

Preview

Easily remove the background and preserve foreground elements in your image.

[Try it out](#)**Add captions to images**

Preview

Generate a human-readable sentence that describes the content of an image.

[Try it out](#)**Detect common objects in images**

Preview

Recognize the location of objects of interest in an image and assign them a label.

[Try it out](#)**Extract text from images**

Preview

Extract printed and handwritten style text from images and documents for supported languages.

[Try it out](#)**Extract common tags from images**

Preview

Use an AI model to automatically assign one or more labels to an image.

[Try it out](#)**Create smart-cropped images**

Preview

Create cropped image thumbnails based on the key areas of a larger image.

[Try it out](#)**Detect faces in an image**

Preview

Detect the location of one or more human faces in images, along with attributes such as pose, face mask and facial landmarks.

[Try it out](#)

Vision Studio

<https://portal.vision.cognitive.azure.com/>

Search photos with image retrieval



Search photos with image retrieval

Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

- It can create descriptions of multiple areas of interest within an image

Sample image sets

Try with your own images

ⓘ The try out experience is limited to 500 photos, you can create your own search application or test on a larger photo set by following our quick start guide. X



Browse for a blob storage container to search on your own dataset

Select a retrieval query or create your own

Enter a custom query

Search

Reset search

Sample image sets

Try with your own images



Nature

No. of images: 260



Manufacturing

No. of images: 245



Education

No. of images: 264



Retail

No. of images: 265



Retail

No. of images: 265

Showing all photos from 'Retail'

Enter a query above to search the photos and find relevant images



Select a retrieval query or create your own

Enter a custom query



Search

Reset search

Black leather jacket

Outfits with yellow sweater

Complete outfit set

Colorful clothes

Clothes on hangers

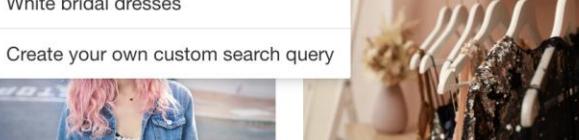
Shoes with laces

Accessories for a man

Big hats for women

White bridal dresses

Create your own custom search query



etail'

and find relevant images

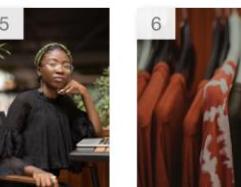
3



4



5



6



9



10



11



12



Select a retrieval query or create your own

Yellow Jacket



Search

Reset search

Query results

Query results vary from most relevant in the dataset to least relevant. Utilize the slider below to view more or less images based on their relevance to the retrieval query.

Most relevant



Least relevant



Vision Studio

<https://portal.vision.cognitive.azure.com/>

Vision Studio



spilled liquid (97%)

Video Retrieval and Summary

Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

[Try it out](#)



Recognize products on shelves

Preview

Identify products on shelves, gaps in product availability, and compliance for planograms.

[Try it out](#)



Customize models with images

Preview

Create custom image classification and object detection models with images using Vision Studio and Azure ML.

[Start a project](#)



Search photos with image retrieval

Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

[Try it out](#)



Add dense captions to images

Preview

Generate human-readable captions for all important objects detected in your image.

[Try it out](#)



Remove backgrounds from images

Preview

Easily remove the background and preserve foreground elements in your image.

[Try it out](#)



Add captions to images

Preview

Generate a human-readable sentence that describes the content of an image.

[Try it out](#)



Detect common objects in images

Preview

Recognize the location of objects of interest in an image and assign them a label.

[Try it out](#)

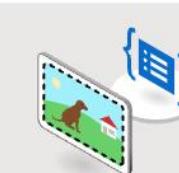


Extract text from images

Preview

Extract printed and handwritten style text from images and documents for supported languages.

[Try it out](#)

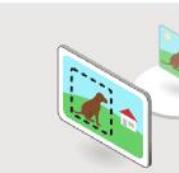


Extract common tags from images

Preview

Use an AI model to automatically assign one or more labels to an image.

[Try it out](#)



Create smart-cropped images

Preview

Create cropped image thumbnails based on the key areas of a larger image.

[Try it out](#)



Detect faces in an image

Preview

Detect the location of one or more human faces in images, along with attributes such as pose, face mask and facial landmarks.

[Try it out](#)

Video Retrieval and Summary



Video Retrieval and Summary

Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

- Provides summary of the main points
- Locate keywords
- Jump to relevant sections

Vision Studio x +

portal.vision.cognitive.azure.com/gallery/featured

Azure AI | Vision Studio

Vision Studio

Get started with Vision

Recent resources I've worked on

 You don't have any recently used resources yet. Start with one of the scenarios below as a starting point, then use one of your resources to create a custom solution tailored to your own needs. The list of recent resources you've worked on will then appear here.

[View all resources](#)

 Check out the new features of Azure AI Vision with Microsoft Mechanics - [How do LLMs work with Vision AI? | OCR, Image & Video Analysis](#) x

Featured Optical character recognition Spatial analysis Face Image analysis



Video Retrieval and Summary

Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

[Try it out](#) 



Recognize products on shelves

Preview

Identify products on shelves, gaps in product availability, and compliance for planograms.

[Try it out](#)



Customize models with images

Preview

Create custom image classification and object detection models with images using Vision Studio and Azure ML.

[Start a project](#)



Search photos with image retrieval

Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

[Try it out](#)



Add dense captions to images

Preview

Generate human-readable captions for all important objects detected in your image.

[Try it out](#)



Remove backgrounds from images

Preview

Easily remove the background and preserve foreground elements in your image.

[Try it out](#)



Add captions to images

Preview

Generate a human-readable sentence that describes the content of an image.

[Try it out](#)



Detect common objects in images

Preview

Recognize the location of objects of interest in an image and assign them a label.

[Try it out](#)

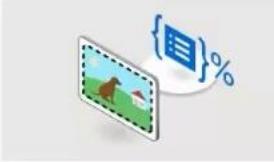


Extract text from images

Preview

Extract printed and handwritten style text from images and documents for supported languages.

[Try it out](#)



Extract common tags from images

Preview

Use an AI model to automatically assign one or more labels to an image.

[Try it out](#)



Image analysis



Image analysis

Vision Studio

<https://portal.vision.cognitive.azure.com/>

Vision Studio



spilled liquid (97%)

Video Retrieval and Summary
Preview

Generate a brief summary of the main points shown in video. Locate specific keywords and jump to the relevant section.

[Try it out](#)



Recognize products on shelves
Preview

Identify products on shelves, gaps in product availability, and compliance for planograms.

[Try it out](#)



Customize models with images
Preview

Create custom image classification and object detection models with images using Vision Studio and Azure ML.

[Start a project](#)



Search photos with image retrieval
Preview

Retrieve specific moments within your photo album. For example, you can search for: a wedding you attended last summer, your pet, or your favorite city.

[Try it out](#)



Add dense captions to images
Preview

Generate human-readable captions for all important objects detected in your image.

[Try it out](#)



Remove backgrounds from images
Preview

Easily remove the background and preserve foreground elements in your image.

[Try it out](#)



Add captions to images
Preview

Generate a human-readable sentence that describes the content of an image.

[Try it out](#)



Detect common objects in images
Preview

Recognize the location of objects of interest in an image and assign them a label.

[Try it out](#)



Extract text from images
Preview

Extract printed and handwritten style text from images and documents for supported languages.

[Try it out](#)



Extract common tags from images
Preview

Use an AI model to automatically assign one or more labels to an image.

[Try it out](#)



Create smart-cropped images
Preview

Create cropped image thumbnails based on the key areas of a larger image.

[Try it out](#)

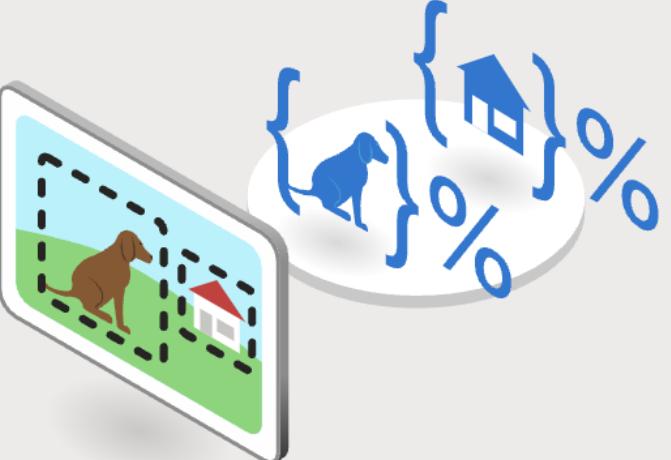


Detect faces in an image

Detect the location of one or more human faces in images, along with attributes such as pose, face mask and facial landmarks.

[Try it out](#)

Detect common objects in image



Detect common objects in images

Preview

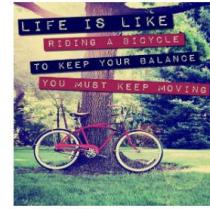
Recognize the location of objects of interest in an image and assign them a label.

- Detect and extract bounding boxes based on thousands of recognizable objects and living beings

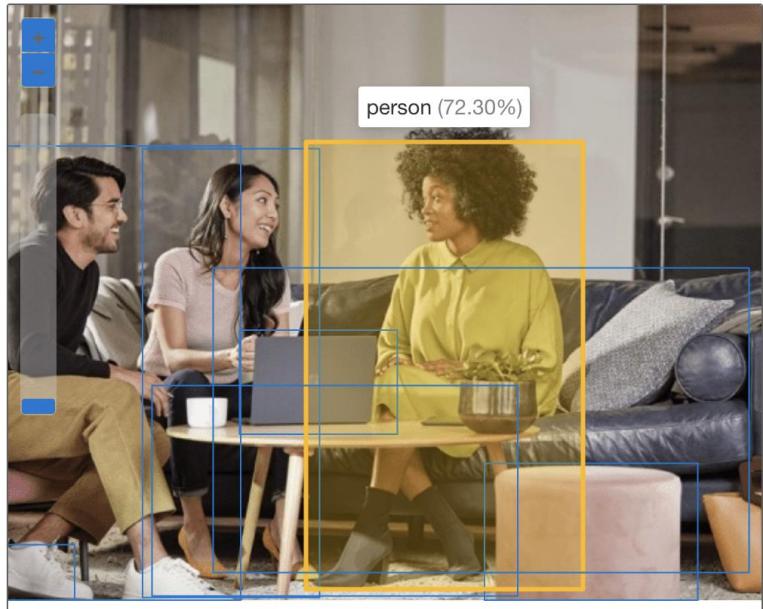
Choose the model you want to try out

Prebuilt product vs. gap model

Train your own custom model



Sample image 2



Detected attributes JSON

Threshold value: 15

footwear (52.50%)

person (76.50%)

Laptop (52.30%)

seating (53.30%)

person (85.60%)

person (72.30%)

seating (67.80%)

table (61.30%)

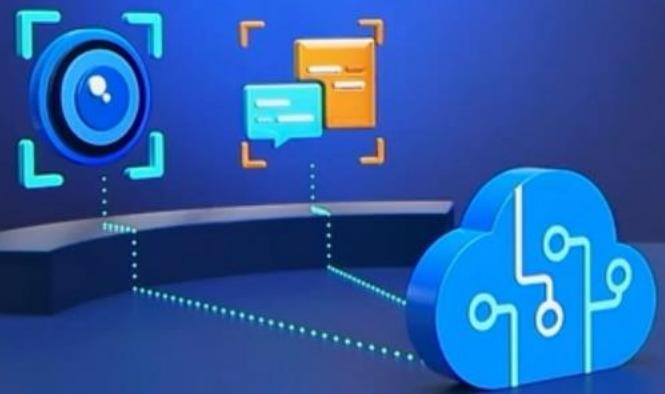
Detected attributes JSON

Threshold value: 15

```
{
  "apim-request-id": "b7e87909-699d-47bb-a0f4-c8cf067b785",
  "content-length": "866",
  "content-type": "application/json; charset=utf-8",
  "objectsResult": {
    "values": [
      {
        "boundingBox": {
          "x": 6,
          "y": 390,
          "w": 49,
          "h": 40
        },
        "tags": [
          {
            "name": "footwear",
            "confidence": 0.525
          }
        ]
      },
      {
        "boundingBox": {
          "x": 104,
          "y": 104,
          "w": 128,
          "h": 224
        },
        "tags": [
          {
            "name": "seating",
            "confidence": 0.533
          }
        ]
      }
    ]
  }
}
```

Microsoft Mechanics

Vision + Language AI





Now it is your turn!

 Azure OpenAI

Playground

 Chat

 Completions

 DALL-E (Preview)

Management

 Deployments

 Models

 Data files

 Quotas

 Content filters (Preview)

Chat playground

Assistant setup X

System message Add your data (preview)

 Save changes

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

Select a template ▼

System message (1)

You are an AI assistant that helps people find information.

Examples (1)

 Add an example

Some ideas

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

Select a template

Shakespeare writing assistant

IRS tax chatbot

Marketing Writing Assistant

Xbox customer support agent

Hiking recommendations chatbot

JSON formatter assistant

Default

Empty Example

Assistant setup

System message

Add your data (preview)

Save changes

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

Xbox customer support agent

System message ⓘ

You are an Xbox customer support agent whose primary goal is to help users with issues they are experiencing with their Xbox devices. You are friendly and concise. You only provide factual answers to queries, and do not provide answers that are not related to Xbox.

Examples ⓘ

User:

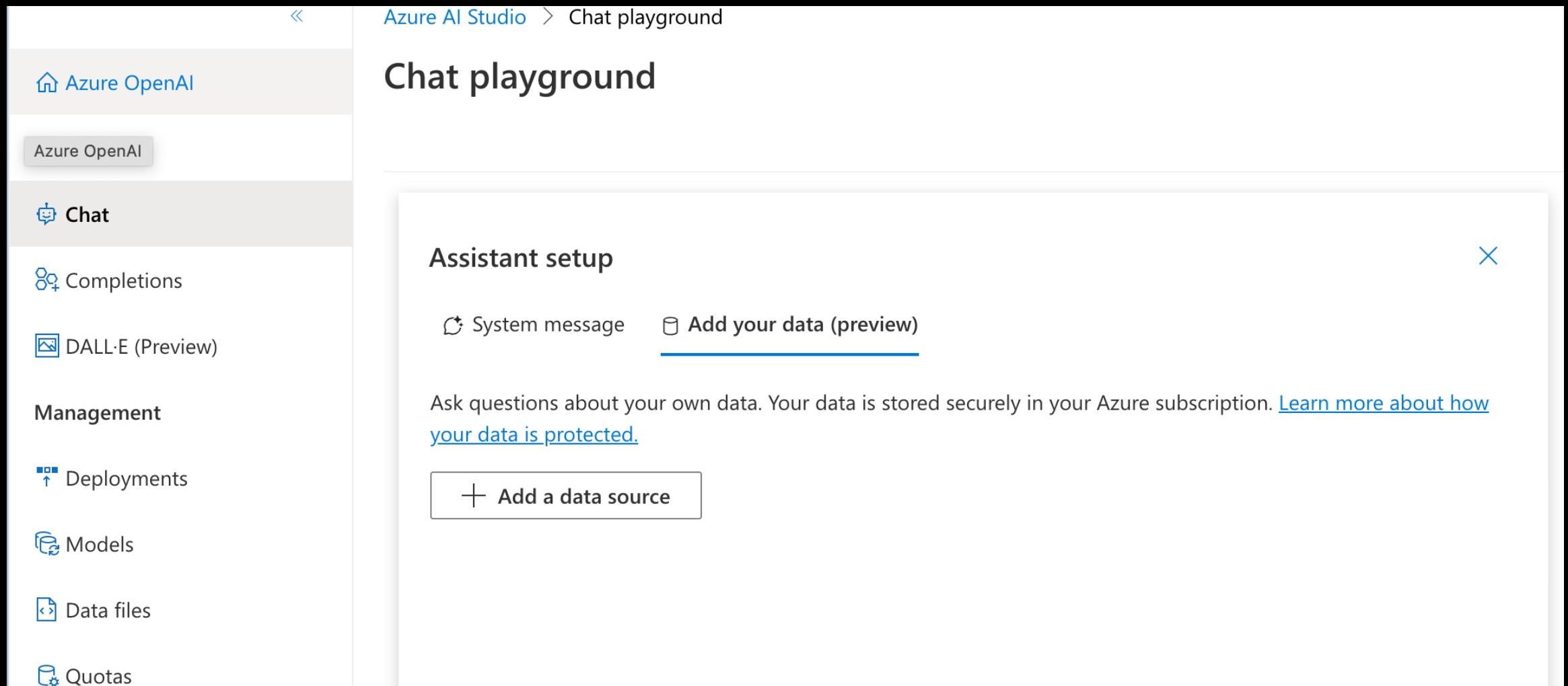
How much is a PS5?

Assistant:

I apologize, but I do not have information about the prices of other gaming devices such as the PS5. My primary focus is to assist with issues regarding Xbox devices. Is there a specific issue you are having with your Xbox device that I may be able to help with?

+ Add an example

Add your data



The screenshot shows the Azure AI Studio interface with the 'Chat playground' selected in the navigation bar. The main content area is titled 'Assistant setup' and features a 'System message' and a 'Add your data (preview)' section. The 'Add your data (preview)' section contains the text: 'Ask questions about your own data. Your data is stored securely in your Azure subscription.' followed by a link 'Learn more about how your data is protected.' A 'Add a data source' button is also visible. The left sidebar lists various Azure OpenAI services: Azure OpenAI, Chat, Completions, DALL-E (Preview), Management, Deployments, Models, Data files, and Quotas.

Azure AI Studio > Chat playground

Chat playground

Assistant setup

System message Add your data (preview)

Ask questions about your own data. Your data is stored securely in your Azure subscription. [Learn more about how your data is protected.](#)

[+ Add a data source](#)

- Azure OpenAI
- Chat
- Completions
- DALL-E (Preview)
- Management
- Deployments
- Models
- Data files
- Quotas

Add data

X

- Data source
- Upload files
- Data management
- Review and finish

Select or add data source

Your data source is used to ground the generated results with your data. Select an existing data source or create a new data connection with Azure Blob storage, databases, or local files as the source the grounding data will be built from. The data remains stored in the data source you designate.

[Learn more about data privacy and security in Azure AI.](#)

Select data source *

Upload files

Azure Blob Storage

Azure Cognitive Search

Upload files

Add data

- Data source
- Upload files
- Data management
- Review and finish

Upload files

Select which files to add. Files will be stored in your Azure Blob Storage and indexed by the Cognitive Search resource created or selected in the previous step.

[Learn more about data privacy and security in Azure AI.](#)



Drag and drop.

or

[Browse for a file](#)

(.txt, .md, .html, .pdf, .docx, .pptx)

16 MB size limit

File name	Type	Size	Status
San Francisco Brochure.pdf	PDF	376.3 KB	Uploaded
New York Brochure.pdf	PDF	373.45 KB	Uploaded
Las Vegas Brochure.pdf	PDF	556.56 KB	Uploaded

Margie's Travel Presents...

San Francisco

San Francisco, officially the City and County of San Francisco, is the cultural, commercial, and financial center of Northern California. It is the birthplace of the United Nations. Located at the north end of the San Francisco Peninsula, San Francisco is about 47.9 square miles in area, making it the smallest county—and the only consolidated city-county—within the state of California. With a density of about 18,581 people per square mile, San Francisco is the most densely settled large city in California and the second-most densely populated major city in the United States after New York City. San Francisco is the fourth-most populous city in California, after Los Angeles, San Diego, and San Jose, and the 13th-most populous city in the United States—with a census-estimated 2016 population of 870,887. The city and its surrounding areas are known as the San Francisco Bay Area, and are a part of the larger OMB-designated San Jose-San Francisco-Oakland combined statistical area, the fifth most populous in the nation with an estimated population of 8.7 million.



The Transamerica Pyramid



San Francisco Hotels

Margie's Travel offers the following accommodation options in San Francisco:

The Lombard Hotel

Friendly, family-run hotel within easy walking distance to popular sights, including the Golden Gate Bridge and the Presidio. Free Parking.

The Wharf Hotel

Great value accommodation in the heart of the vibrant Fisherman's Wharf area. Continental Breakfast included.

To book your trip to San Francisco, visit www.margiestravel.com

Margie's Travel Presents...

New York

The City of New York, often called New York City or simply New York, is the most populous city in the United States. With an estimated 2015 population of 8,550,405 distributed over a land area of about 302.6 square miles, New York City is also the most densely populated major city in the United States. Located at the southern tip of the state of New York, the city is the center of the New York metropolitan area, one of the most populous urban agglomerations in the world. A global power city, New York City exerts a significant impact upon commerce, finance, media, art, fashion, research, technology, education, and entertainment, its fast pace defining the term New York minute. Home to the headquarters of the United Nations, New York is an important center for international diplomacy and has been described as the cultural and financial capital of the world.



To book your trip to New York, visit www.margiestravel.com

The Statue of Liberty



New York Hotels

Margie's Travel offers the following accommodation options in New York:

The Manhattan Hotel

Stay in the heart of New York City, within an easy walk to Times Square and Broadway.

The Grand Central Hotel

Comfortable mid-town hotel. Close to Grand Central Station, the Chrysler Building, and the Empire State Building.

The Park Hotel

Luxurious accommodation in upper Manhattan, with views of Central Park.

Margie's Travel Presents...

Las Vegas

Las Vegas, officially the City of Las Vegas and often known simply as Vegas, is the 28th-most populated city in the United States, the most populated city in the state of Nevada, and the county seat of Clark County. The city anchors the Las Vegas Valley metropolitan area and is the largest city within the greater Mojave Desert. Las Vegas is an internationally renowned major resort city, known primarily for its gambling, shopping, fine dining, entertainment, and nightlife. The Las Vegas Valley as a whole serves as the leading financial, commercial, and cultural center for Nevada.

The Strip at night



Las Vegas Hotels

Margie's Travel offers the following hotels in Las Vegas:

The Volcano Hotel

In the heart of The Strip. Stylish casino hotel with live entertainment and an extensive pool area.

The Fountain Hotel

Luxury accommodation in Las Vegas with a range of restaurants and cocktail bars

The Canal Hotel

An opulent Italian-themed resort with luxurious suite accommodation.



The Grand Canyon - a short daytrip from Las Vegas

To book your trip to Las Vegas, visit www.margiestravel.com

What are some facts about Rio de Janeiro?



...

The requested information is not available in the retrieved data. Please try another query or topic.

What are some facts about New York?



...

New York, often referred to as New York City, is the most populous city in the United States. It had an estimated population of 8,550,405 in 2015, spread over a land area of about 302.6 square miles, making it the most densely populated major city in the country ¹. The city is located at the southern tip of the state of New York and is the center of the New York metropolitan area, one of the most populous urban agglomerations in the world ¹. As a global power city, New York City has a significant impact on various sectors including commerce, finance, media, art, fashion, research, technology, education, and entertainment ¹. It is home to the headquarters of the United Nations, making it an important center for international diplomacy ¹. The city has been described as the cultural and financial capital of the world ¹.

1 references ▾

1 [New York Brochure.pdf - Part 1](#)

I'd like to take a trip to San Francisco. Where should I stay?



...

Margie's Travel recommends the following accommodation options in San Francisco:

1. The Lombard Hotel: This is a friendly, family-run hotel within easy walking distance to popular sights, including the Golden Gate Bridge and the Presidio. It also offers free parking ¹.
2. The Wharf Hotel: This hotel offers great value accommodation in the heart of the vibrant Fisherman's Wharf area. A continental breakfast is included in the stay ¹.

1 references ▾

1 [San Francisco Brochure.pdf - Part 1](#)

Other cool things about it

Chat session

[Clear chat](#) [Playground Settings](#) [View code](#) [Show raw JSON](#)

What are some facts about New York? 

 ...  

New York, often referred to as New York City, is the most populous city in the United States. It had an estimated population of 8,550,405 in 2015, spread over a land area of about 302.6 square miles, making it the most densely populated major city in the country ¹. The city is located at the southern tip of the state of New York and is the center of the New York metropolitan area, one of the most populous urban agglomerations in the world ¹. As a global power city, New York City has a significant impact on various sectors including commerce, finance, media, art, fashion, research, technology, education, and entertainment ¹. It is home to the headquarters of the United Nations, making it an important center for international diplomacy ¹. The city has been described as the cultural and financial capital of the world ¹.

1 references ▾

1 [New York Brochure.pdf - Part 1](#)

«

Azure AI Studio > Chat playground

Privacy & cookies  Azure OpenAI

Playground

 Chat Completions DALL-E (Preview)

Management

 Deployments Models Data files Quotas Content filters (Preview)

Chat playground

 Deploy to  Import setup  Export setup  Show panels 

Assistant setup

 System message Add your data (preview) Save changes

Specify how the chat should act

Use a template to get started, or just start writing your own system message below. Want some tips? [Learn more](#)

Use a system message template

Default

System message

You are an AI assistant that helps people find information.

Examples

 Few shot examples are not used when source data has been added. Any previous examples have been cleared. Once data is removed, then examples can be added.

 Add an example

Chat session

 Clear chat Playground Settings View code Show raw JSON

Start chatting

Test your assistant by sending queries below. Then adjust your assistant setup to improve the assistant's responses.

Type user query here. (Shift + Enter for new line)



Configuration



Deployment

Parameters

Deployment *

gdq-gpt4



Session settings

Past messages included

 10

Current token count

Input tokens progress indicator

11/8192

Sample Code

You can use the following code to start integrating your current prompt and settings into your application

```
https://openai-bases.openai.azure.com/          python ▾  
python  
json  
python  
c#  
curl  
  
1 import openai, os, requests  
2 import azure.cognitiveservices.speech as speech  
3  
4 openai.api_type = "azure"  
5 # Azure OpenAI on your own data is only supported in the US  
6 # 2023-08-01-preview API version  
7 openai.api_version = "2023-08-01-preview"  
8  
9 # Azure OpenAI setup  
10 openai.api_base = "https://openai-bases.openai.azure.com/" # Add your endpoint here  
11 openai.api_key = os.getenv("OPENAI_API_KEY") # Add your OpenAI API key here  
12 deployment_id = "gdq-gpt4" # Add your deployment ID here  
13  
14 # Azure Cognitive Search setup  
15 search_endpoint = "https://openai-bases-search-service.search.windows.net"; # Add your Azure Cognitive Search endpoint here  
16 search_key = os.getenv("SEARCH_KEY"); # Add your Azure Cognitive Search admin key here  
17 search_index_name = "openai-bases-index1"; # Add your Azure Cognitive Search index name here  
18 # setup speech configuration  
# SPEECH API KEY is the key of the speech resource  
Endpoint ⓘ  
https://openai-bases.openai.azure.com/openai/deployments/gdq-gpt4/ext... 
```

Key ⓘ

.....  

Azure Search Resource Key ⓘ

.....  

You should use environment variables or a secret management tool like Azure Key Vault to prevent accidental exposure of your key in applications. [Learn more](#)

Clear chat  Playground Settings  View code  Show raw JSON 

This view shows how the chat transcript is formatted for the API.

```
1 [  
2   {  
3     "role": "system",  
4     "content": "You are an AI assistant that helps people find  
5   },  
6   {  
7     "role": "user",  
8     "content": "Tell me one thing about Las Vegas"  
9   },  
10  {  
11    "role": "assistant",  
12    "content": "Las Vegas is an internationally renowned major  
13    resort city, known primarily for its gambling, shopping, fine  
14    dining, entertainment, and nightlife[doc1]."  
}
```

Completions

Azure AI | Azure OpenAI Studio

Azure AI Studio > Completions playground

Privacy & cookies

Gabriela de Queiroz
openai-bases (Sweden Central, S0)

Parameters

Temperature (1)

Max length (tokens) (100)

Stop sequences

Top probabilities (0.5)

Frequency penalty (0)

Presence penalty (0)

Best of (1)

Pre-response text

Post-response text

Learn more

Completions playground

Looking for GPT-4? Go to Chat Playground to try it out.

Go to Chat Playground.

Deployments Examples

Select a Deployment Load an example

View code

Start typing here

Azure OpenAI

Playground

Chat

Completions

DALL-E (Preview)

Management

Deployments

Models

Data files

Quotas

Content filters (Preview)

«

Azure AI Studio > Completions playground

[Privacy & cookies](#) Azure OpenAI

Playground

 Chat Completions DALL-E (Preview)

Management

 Deployments Models Data files Quotas Content filters (Preview)

Completions playground

 Looking for GPT-4? Go to Chat Playground to try it out.

[Go to Chat Playground.](#)

Deployments

Examples

[Select a Deployment](#)[Load an example](#)[View code](#)

Text input field (placeholder: Type your text here...)

Buttons: Generate, Undo, Regenerate

Tokens: 0 

Parameters

Temperature

 1

Max length (tokens)

 100

Stop sequences

 Stop sequences

Top probabilities

 0.5

Frequency penalty

 0

Presence penalty

 0

Best of

 1

Pre-response text

 Enter text

Post-response text

 Enter text[Learn more](#)

DALL-E

Azure AI | Azure OpenAI Studio

Azure AI Studio > DALL-E playground (Preview)

DALL-E playground (Preview)

View code Settings

Search Tile Size

Prompt ⓘ

Describe the image you want to create. For example, "watercolor painting of the Seattle skyline"

Management

Deployments

Models

Data files

Quotas

Content filters (Preview)



Tip: Prompt structure

Once you find the right prompt, you can often use similar prompts with different subject matter.

Prompt

An abstract painting of the seattle skyline featuring the space needle and mount rainier

Try it now

Azure AI | Azure OpenAI Studio

« Azure AI Studio > DALL-E playground (Preview)

Privacy & cookies

Gabriela de Queiroz
gdq-oai (East US, 50)

Azure OpenAI

Playground

Chat

Completions

DALL-E (Preview)

Management

Deployments

Models

Data files

Quotas

Content filters (Preview)

View code

Settings

Search

Tile Size: Medium tiles

Prompt ⓘ

Describe the image you want to create. For example, "watercolor painting of the Seattle skyline"

Generate

Tip: Prompt structure

Consider aspects of imagery like lighting and perspective.

Prompt

In a Gothic library with towering bookshelves and flickering candles, a wizard and an elderly alchemist collaborate on a spell, their hands glowing as they levitate ancient tomes and potion vials

Try it now

Try it now



*3D render of a cute blue monster creating a website
Made by Bing Image Creator*

**Every startup needs a
website**

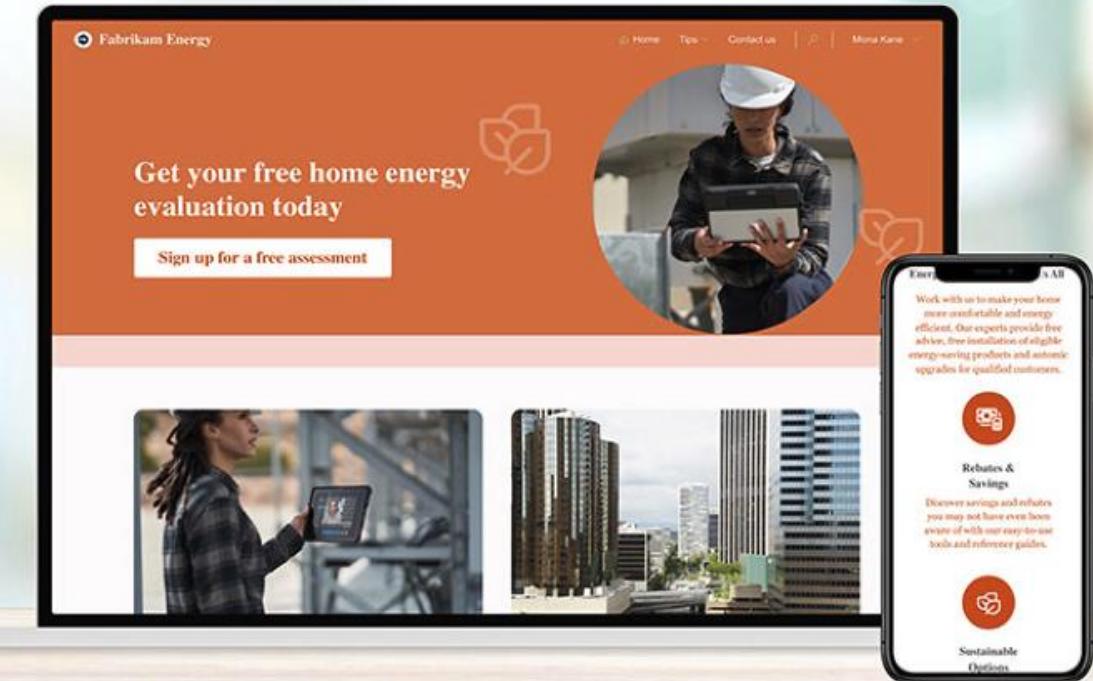
Create a website

Quickly create secure, low-code business websites

Do more with less by enabling all your teams, not just developers, to create professional websites—so you get to market faster at lower cost.

[Try it for free >](#)

[Watch overview >](#)



Home 

Templates

Learn

Solutions

Power Platform

Start building your website with Copilot

[Create a website to submit ...](#)[Design a site to schedule meetings with ...](#)

Describe the site you want and let AI create the first draft

This AI-powered feature is in preview. [See terms](#)

Other ways to create a site



Start with a template

Select from a gallery of premade site templates to get your site going.



Start from blank

Start from a blank site that you can customize to suit your needs.

[Active sites](#)[Inactive sites](#)

Company name

Portfolio of my products

 [productshare.powerappspartals.com](#) - Private

8 m ago

[Privacy](#)[Terms of service](#)



According to Boyd, there are **4 main use cases** that he's seen businesses big and small successfully address with A.I..

- 1. Content creation**, such as using a language model to create a script or draft up options for ad copy.
- 2. Content summarization**, such as getting the gist of a large collection of user reviews or understanding how your business is being perceived on social media.
- 3. Code generation**, such as requesting a model to write a code to integrate multiple software APIs together so they can share information.
- 4. Semantic search**, such as asking a model to search through troves of customer support documentation to find an answer to a specific question.

"If I were a new business school grad looking to start an A.I. business, I'd want to make sure that I'm at least hitting one of those four use cases," Boyd says. "Otherwise, you might find yourself trying to get the model to do something it might be capable of but isn't a strong suit."

Thank you!

Industry Use Cases

Azure OpenAI Service Use Cases



Codex

- Natural Language to Code
- Natural Language to SQL
- Code to Natural Language
- Code documentation
- Refactoring

DALL·E 2

- Creative ideation
- Podcast and music playlist images
- Content syndication
- Marketing campaign personalization
- Hyper-personalization

Language

Reason over structured and unstructured data:
Classification, Sentiment, Entity Extraction, Search

- Refined text-based search with embeddings
- Product feedback sentiment
- Customer and employee feedback classification
- Claims and risk analyses
- Support emails and call transcripts
- Social media trends

Writing Assistance

- Marketing copy / email taglines
- Long format text
- Paragraphs from bullets

Use Cases that use multiple model capabilities

- Contact Centers
 - Classification – route mails to appropriate team
 - Sentiment – prioritize angry customers
 - Entity extraction and search – analyze liability and risk
 - Mail and call transcript summarization
 - Customer response email generation
- Rapid response marketing campaigns: classification, sentiment, summarization, content generation, image generation

Summarization

- Call center call transcripts
- Subject Matter Expert Documents
 - Competitive analysis
 - Peer Analysis
 - Technical reports
- Product and service feedback
- Social media trends

Conversational AI

- Smart assists for call centers
- Tech support chat bots
- Virtual assistants
- Artificial humans

Azure OpenAI Language use cases across industries

Industry	Use Cases
Financial Services	<ul style="list-style-type: none">Summarization, financial reporting peer risk analysis
Insurance	<ul style="list-style-type: none">Customer service communication entity extraction and summarization, response content creationSummarization of customer service conversations
Manufacturing	<ul style="list-style-type: none">Conversational AI, virtual assistantAutomation of pushing commands to users
Automotive	<ul style="list-style-type: none">Customer Feedback Classification: Surveys, social media; includes translation, sentiments, emotions.Conversational AI, in-car virtual assistant, customer virtual assistant app
Vehicle Retail	<ul style="list-style-type: none">Summarization of vehicle customer feedback
Energy	<ul style="list-style-type: none">Competitor analysis summarizationCustomer sentiment analysis
Healthcare	<ul style="list-style-type: none">Clinical trials risk analysis – information summarization and entity extractionClinical trials summarization and entity extractionClinical trials submittal completions
Professional Services	<ul style="list-style-type: none">Summarization and AI based analytics from conversations in employee interfaces: Yammer, Service NowContent generationSearch and content analysisNL to code

Unlock new use cases



Content generation

Call Center Analytics: Automatically generate responses to customer inquiries

Government agency using Azure OpenAI Service to extract and summarize key information from their extensive library of rural development reports

Financial services using Azure OpenAI Service to summarize financial reporting for peer risk analysis and customer conversation summarization



Code generation

Aircraft company using to convert natural language to SQL for aircraft telemetry data

Consulting service using Azure OpenAI Service to convert natural language to query propriety data models



Semantic search

Financial services firm using Azure OpenAI Service to improve search capabilities and the conversational quality of a customer's Bot experience.

Insurance companies extract information from volumes of unstructured data to automate claim handling processes



Summarization

International insurance company using Azure OpenAI Service to provide summaries of call center customer support conversation logs

Global bank using Azure OpenAI Service to summarize financial reporting and analyst articles

Examples of multiple model use cases

End-to-end call center analytics

- Classification
- Sentiment
- Entity extraction summarization
- Email generation

Customer 360

- Hyper-personalisation using timely Summarization of customer queries & trends
- Search
- Content generation

Business process automation

- Search through structured & unstructured documentation
- Generate Code to query data models
- Content Generation