



# Overview of Azure OpenAI for eHealth

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# Agenda

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1. What is ChatGPT and technology behind it ?
  2. What's real and what's not ?
  3. Why Azure OpenAI ?
  4. Highlight of some common use cases for Azure OpenAI

## GPT is the brainer behind ChatGPT



- GPT stands for “Generative Pre-trained Transformer”.
- Deep learning algorithm that uses unsupervised learning to generate human-like text.
- Trained on massive amounts of text data and can generate text that is coherent and contextually relevant.
- Generate text for a variety of applications such as chatbots, language translation, and even writing articles.
- In healthcare, GPT can be used to generate reports, summaries, QnA and other types of text-based content.

Remark : this summary is generated by Bing Chat with the following prompt

Give me an overview of what GPT is. Provide simple answers in 5 bullet points. The audience are partitioners in healthcare attending Asia Pacific eHealth Conference 2023

<http://www.ehealth.org.hk/APEHC2023/en/index/>

# Capabilities and Limitations of ChatGPT



## Examples

"Explain quantum computing in simple terms" →

"Got any creative ideas for a 10 year old's birthday?" →

"How do I make an HTTP request in Javascript?" →



## Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests



## Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021

# Our partnership with OpenAI



Ensure that artificial general intelligence (AGI) benefits humanity.



Empower every person and organization on the planet to achieve more

GPT

Generate and Understand Text

Codex

Generate and Understand Code

DALL·E

Generate images from text prompts

ChatGPT *(preview)*

Generate conversational responses

# Enterprise Ready to solve business problems



GPT

Codex

DALL·E

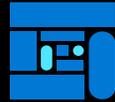
ChatGPT *(preview)*



Deployed into your Azure subscription, secured by you, accessed only by you and tied to your datasets and applications



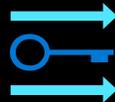
Enterprise grade support, in conjunction with OpenAI – single point of contact



Large, pre-trained, Custom AI models fine-tuned with your data and hyperparameters



Built-in responsible AI to detect and mitigate harmful use



Enterprise-grade security with role-based access control (RBAC) and private networks

# Some use cases for Healthcare

Large pretrained foundation AI models  
custom-tunable with your parameters and your data



Writing assistance,  
content creation



Reason over structured  
and unstructured data



Summarize text,  
feedback, reports, QnA



Chat bot and Virtual  
Agent scenarios

# More advanced use cases



# OpenAI - agent to explore more intelligent form Azure AI

## Applications



Partner Solutions



Business Users

## Application Platform

AI Builder



Power BI



Power Apps



Power Automate



Power Virtual Agents

## Scenario-Based Services

Applied AI Services



Bot Service



Cognitive Search



Form Recognizer



Video Indexer



Metrics Advisor



Immersive Reader

## Customizable AI Models

Cognitive Services



Vision



Speech



Language



Decision



OpenAI Service



Developers & Data Scientists

## Machine Learning Platform



Azure Machine Learning

# Microsoft 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