

Implementing Generative AI Models with Azure OpenAI

Some TRIVIA before we start...

- What are the thermal requirements of current quantum computers?
- How much did Microsoft pay for Activision-Blizzard?
- What is the longest-running software product line for Microsoft?

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Answers...

What are the thermal requirements of current quantum computers?

Quantum processors need to be very cold – about a hundredth of a degree above absolute zero — to avoid “decoherence,” or retain their quantum states.

How much did Microsoft pay for Activision-Blizzard?

\$69B (after much scrutiny from regulators)

What is the longest-running software product line for Microsoft?

Released in 1982, Microsoft Flight Simulator is the longest-running software product line for Microsoft, predating Windows by three years.



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Warner Chaves



Toronto Data Professionals Community (TDPC)

SQL Saturday Toronto 2023



SQL Saturday (#1064)

Bio

- DBA and Consultant for 16 years
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Generative AI



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A type of artificial
intelligence that can
CREATE NEW CONTENT,
such as text, images,
audio, and video



Most people already have experienced ChatGPT, or Bing Chat, or Google Bard or image generators like MidJourney



What is the origin story of Pythian



Pythian, also known as the Pythian Games, has its origins in ancient Greek mythology and the Oracle of Delphi. According to legend, the Oracle of Delphi was a priestess who served as a channel of communication between the gods and mortals. The Oracle resided at the sanctuary of Apollo, the Greek god of prophecy, music, and healing, located in Delphi, Greece.



The Pythian Games were religious and athletic competitions held at Delphi every four years in honor of Apollo. The precise origins of the Pythian Games are shrouded in mythology, but it is believed that they were established in the 6th century BCE. The games included various athletic contests, such as chariot racing, foot races, wrestling, and combat sports.



Different Needs

Consumer:

Draft a packing list for my weekend fishing and camping trip

Help me plan a neighborhood block party

Outline my blog post about summer recipes

Help me name my first song

I want to write a novel. How do I get started?



Enterprise:

Allow data analysts to search and summarize market reports while controlling our data

Handle a customer service interaction with accurate info

Can you guarantee we have access to state-of-the-art models?

Help my customers understand my financial products while being safe, explainable, and regulatory compliant

Can we generate content while controlling costs?

Is it easy to integrate into our existing apps and platform?



Azure OpenAI



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Why Azure?

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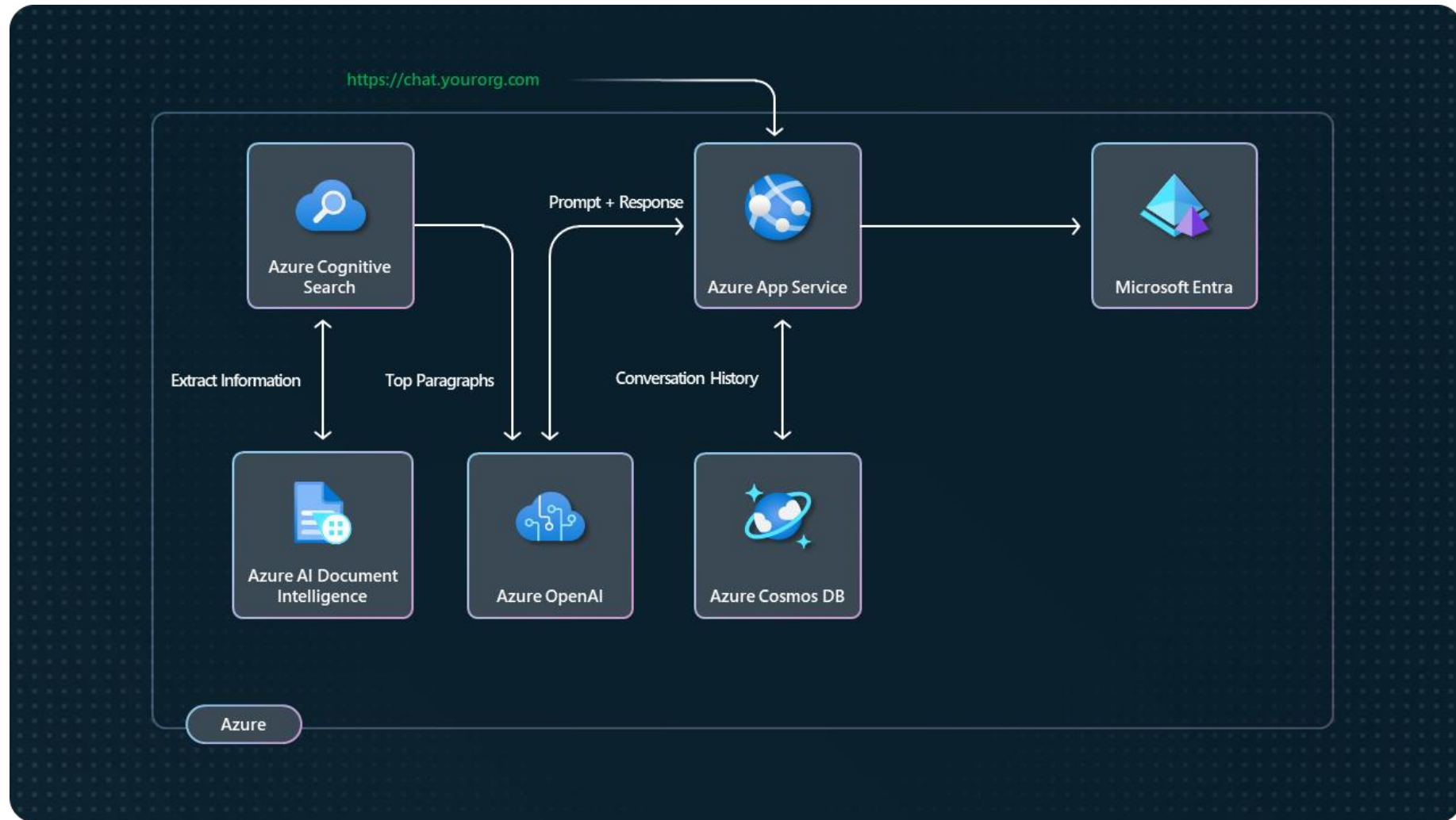
Is it easy to integrate into our existing apps and platform?



Menu of Models

Type of model	Name
Multi-modal	GPT4
LLM	GPT3.5-4
Embedding	Ada
Image	Dalle
Audio to text	Whisper





Demo:

<https://github.com/microsoft/azurechat>



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Recap

- Generative AI is an early, fast moving space
- Enterprise needs are unique
- Azure allows you to wrap OpenAI functionality around your enterprise
- It is very easy to get going both UX and code-wise
- Azure also provides multiple services to put a full solution together
- The service will continue to evolve to offer the latest models



Questions?



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Thank you!



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