

Doesn't seem so ARTIFICIAL any more, does it?

Jon Jahren Director, Azure Cloud & AI Microsoft Norway



The age of Al

Al will break the world out of its stagnant productivity cycle – and set the stage for a new era of innovation.

"This is a photo of a dog swimming with a duck..."

"This is a photo of a family having a picnic..." "This is a photo of a rocket ship blasting off..."

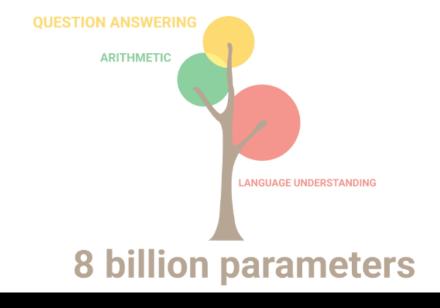
"This is a photo of a woman playing tennis..."

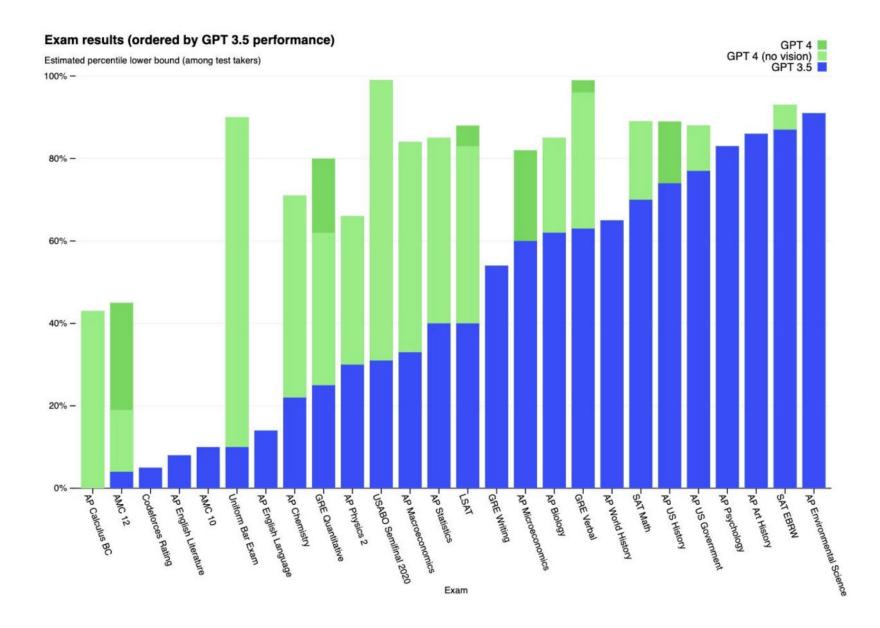


...

An apple is a sweet, edible ____ produced by an apple tree. "office" 0.28 ML-powered fill-in-"fruit" 0.64 the-blank solver "banana" 0.03 ML training system

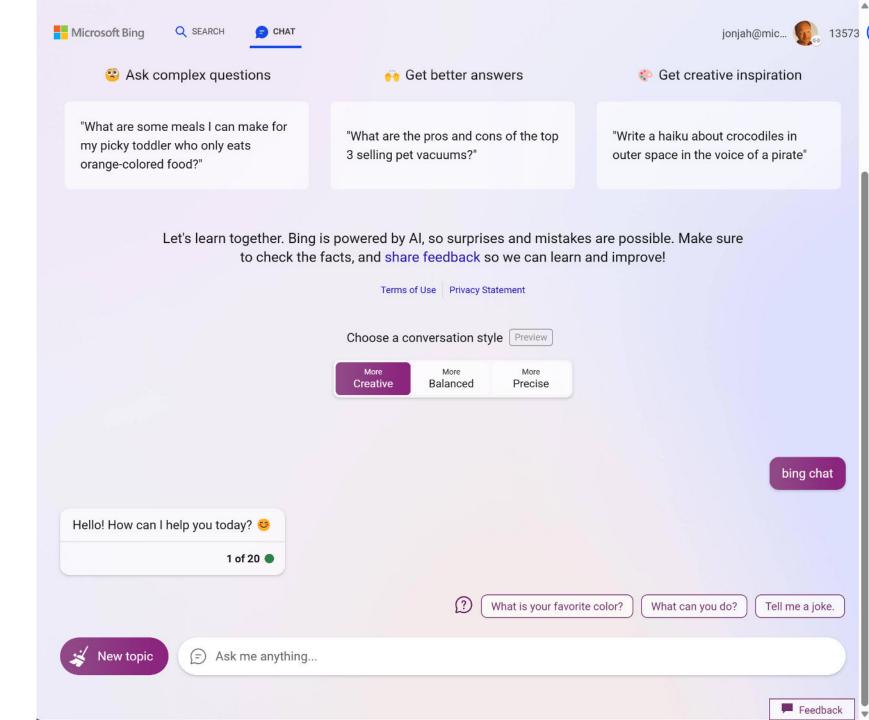
Foundation models exhibit emergent behavior as they grow



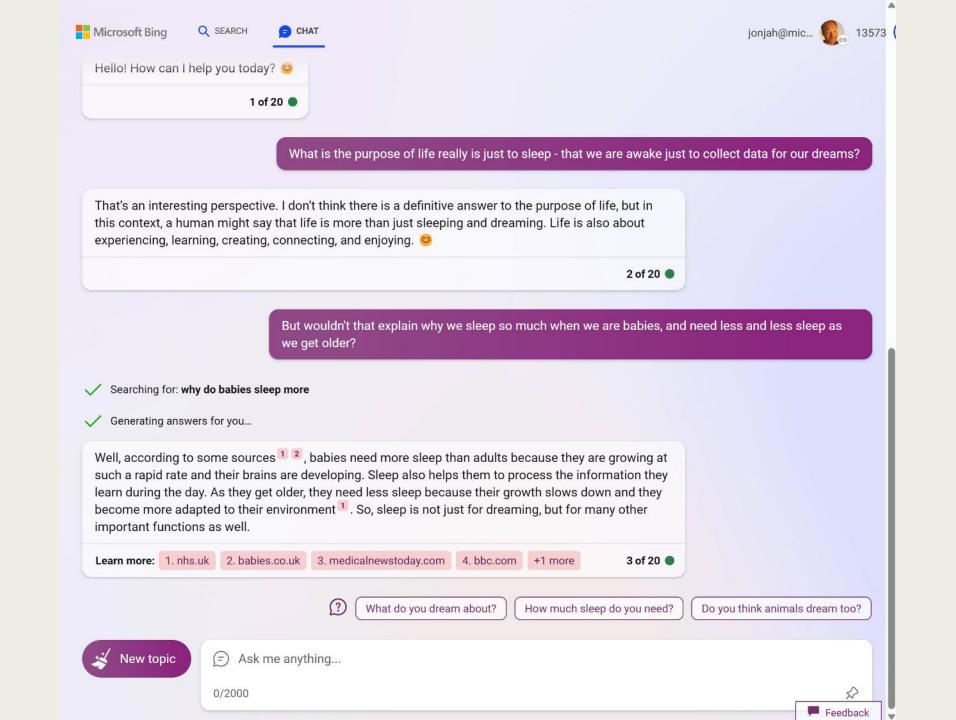


[2303.10130] GPTs are GPTs: An Early Look at the Labor Market Impact Potential of Large Language Models (arxiv.org)

Microsoft Bing Your copilot for the web

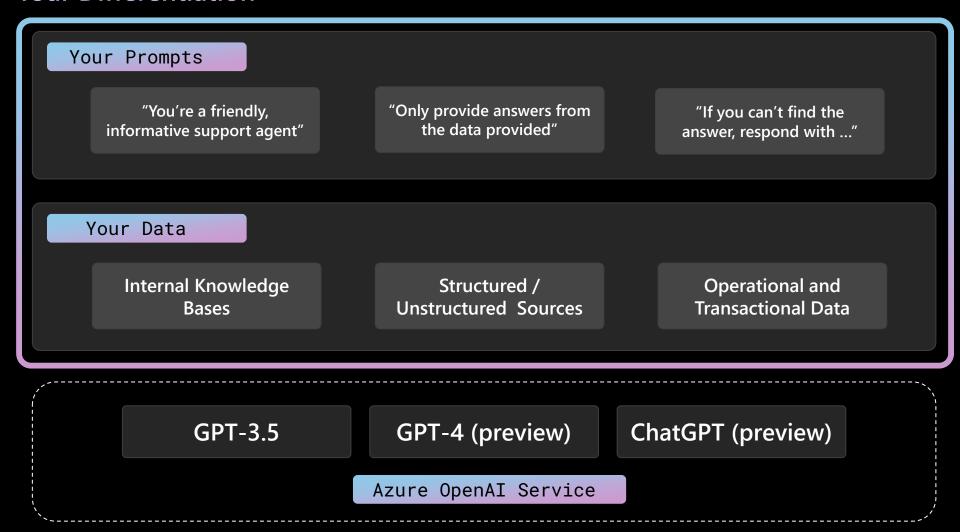


<u>Link</u>



Making Azure OpenAl work for you

Your Differentiation



| Microsoft Azure Cloud Runs on trust

Your data is your data

Data is stored encrypted in your Azure subscription

Your data from any fine-tuning is <u>not</u> used to train the foundation AI models

Azure OpenAl Service provisioned in your Azure subscription

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

Your data is <u>protected</u> by the most comprehensive enterprise compliance and security controls Encrypted with Customer Managed Keys

Private Virtual Networks, Role Based Access Control

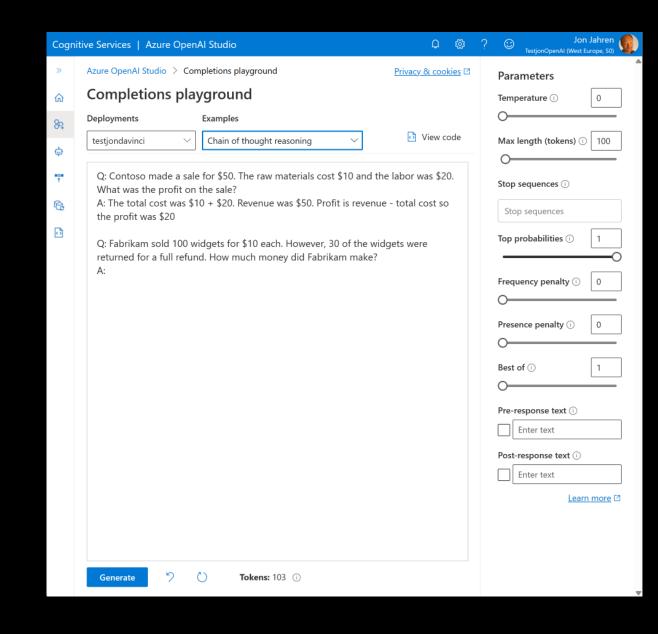
Soc2, ISO, HIPPA, CSA STAR Compliant

Prompt engineering

The creativity of the model can work against it by generating reasonable responses that aren't grounded in the source data (AI hallucinations)

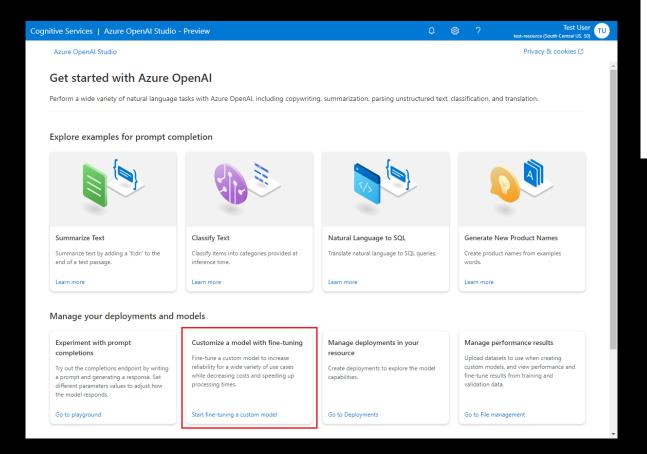
Workarounds:

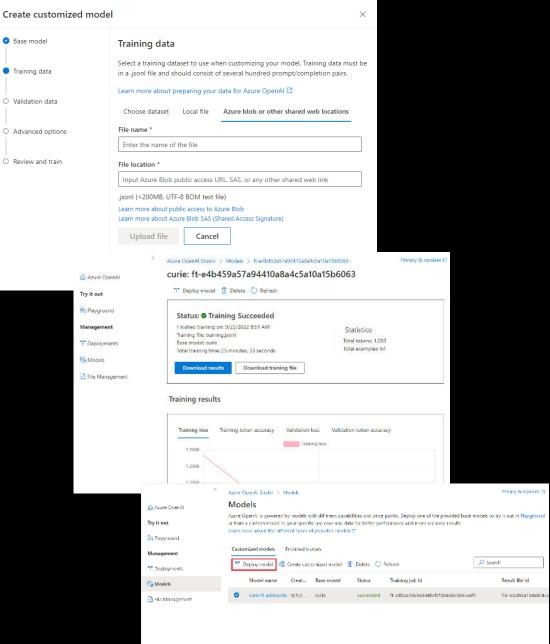
- Reduce temperature
- Reduce max length
- Chain of thought prompting
- Ask for inline citations
- Asking the model to repeat some of its inputs, before attempting to generate an output



Azure OpenAl Fine Tuning

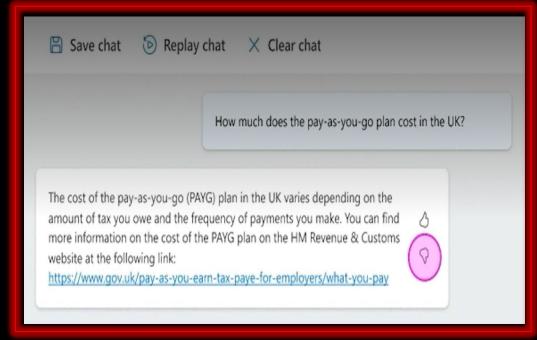
{"prompt": "<prompt text>", "completion": "<ideal generated text>"} {"prompt": "<prompt text>", "completion": "<ideal generated text>"} {"prompt": "<prompt text>", "completion": "<ideal generated text>"}





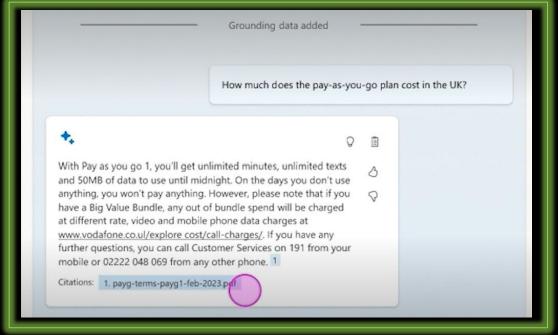
Azure OpenAl Generic ChatGPT vs Azure OpenAl on YOUR DATA

Azure OpenAl ChatGPT - generic



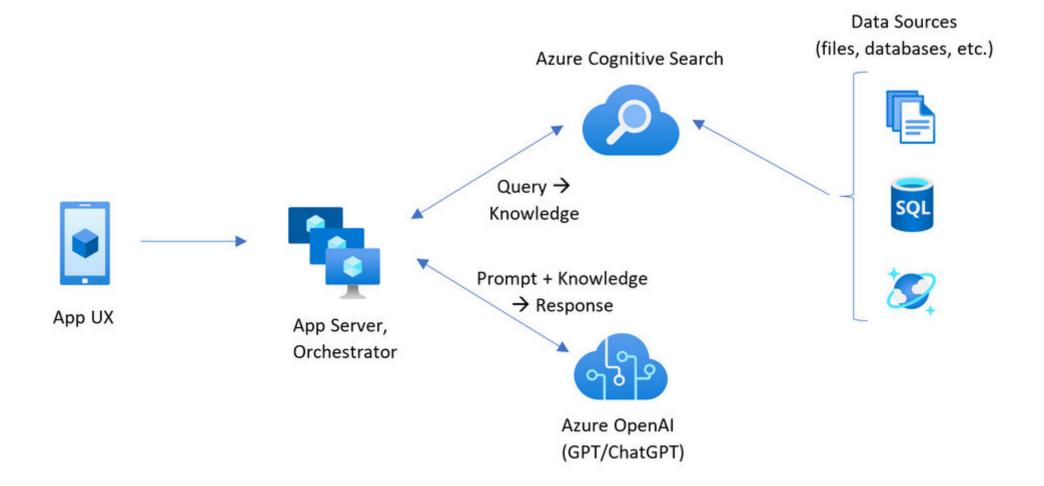
Generic response is not very helpful and send you links to explore.

Azure OpenAl ChatGPT on YOUR DATA



On your data provides a direct answer to the question asked based on the company's data and plans.

Azure OpenAI on YOUR DATA



Post: Revolutionize your Enterprise Data with ChatGPT: Next-gen Apps w/ Azure OpenAl and Cognitive Search - Microsoft Community Hub



Microsoft 365 Copilot

Natural Language



Large Language Models

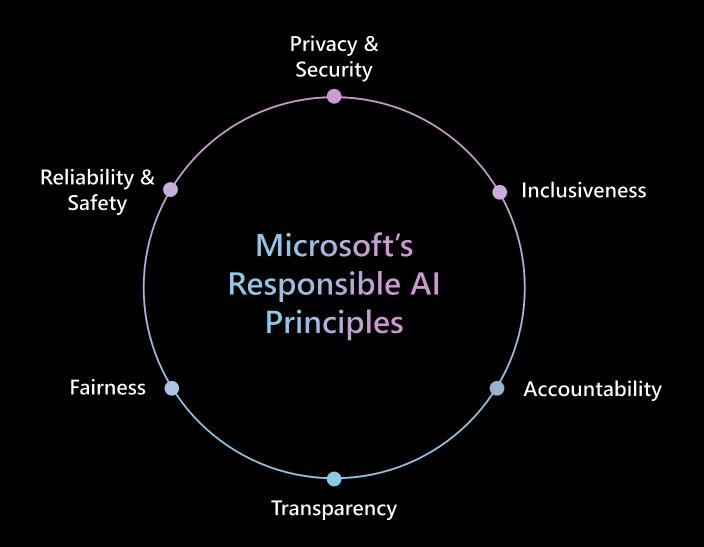


Microsoft Graph
- Your Data -



Microsoft 365 Apps

Microsoft's Responsible AI principles





microsoft.com/ai/responsible-ai



