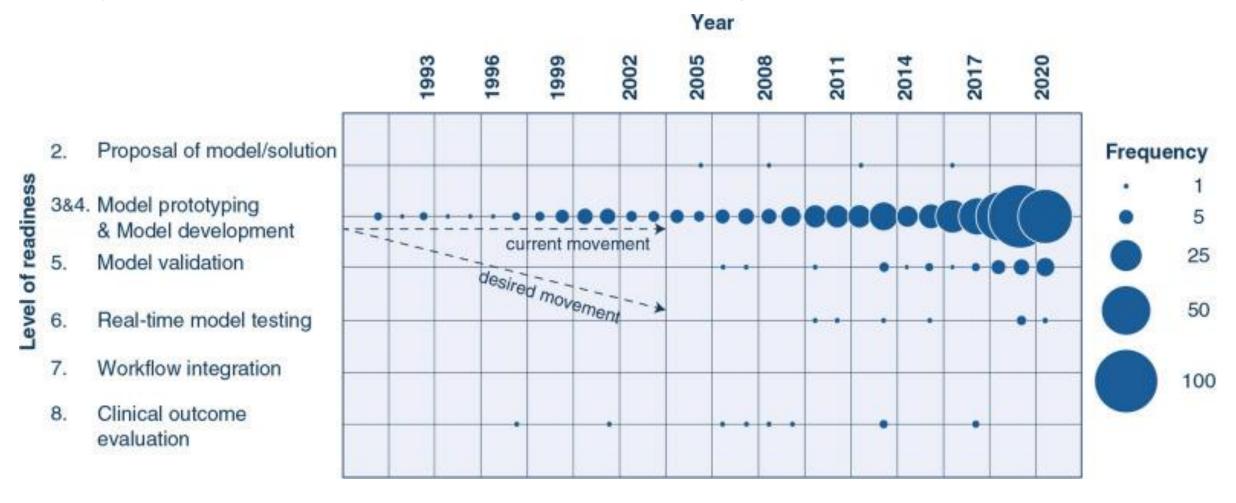




Moving from bytes to bedside:

a systematic review on the use of artificial intelligence in the intensive care unit



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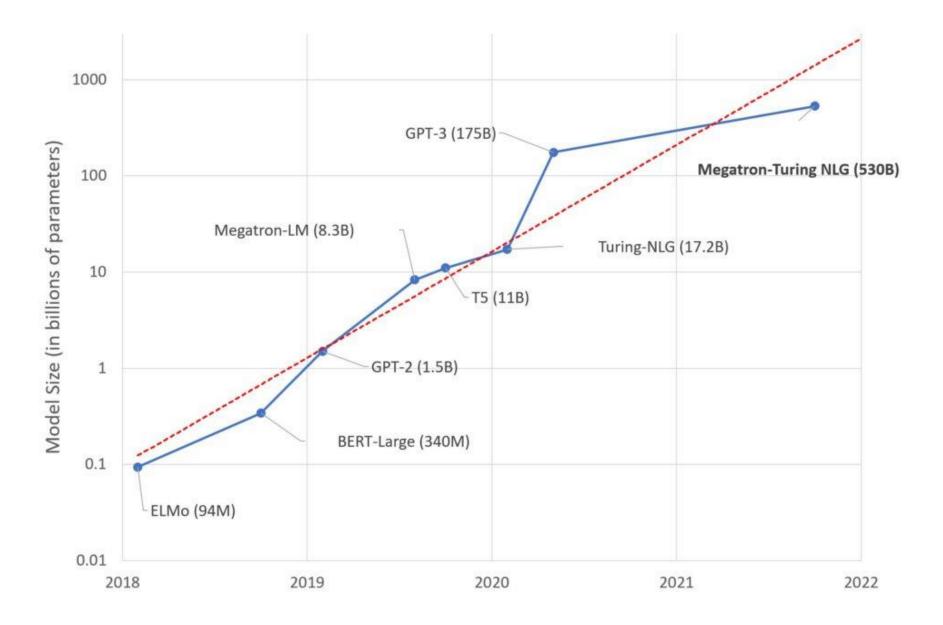


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GPT





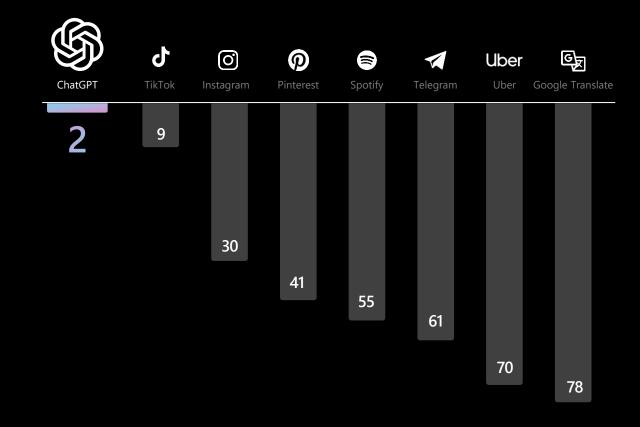


<u>Using DeepSpeed and Megatron to Train Megatron-Turing NLG 530B, the World's Largest and Most Powerful Generative Language Model - Microsoft Research</u>

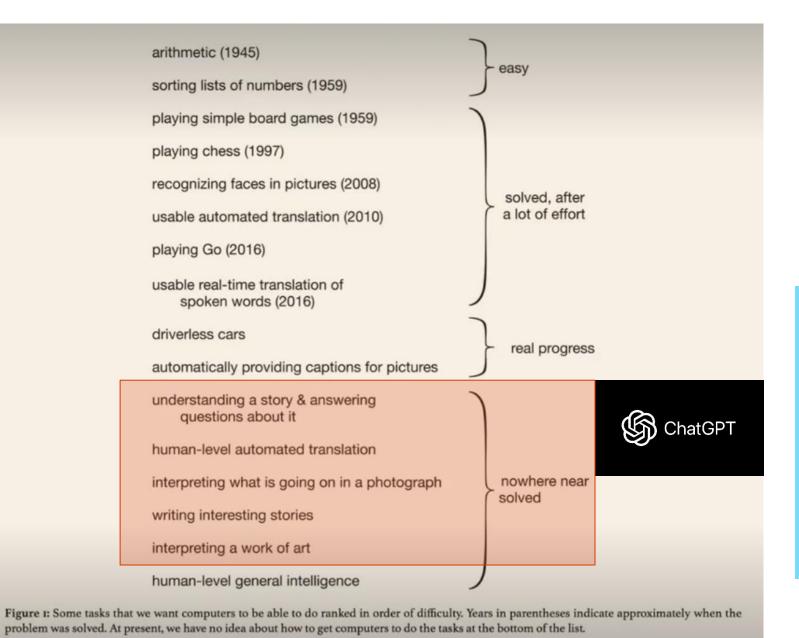


Satya Nadella

We experience an unprecedented speed of Al adoption



Maanden om 100 miljoen gebruikers te bereiken



Professor Michael Wooldridge



Position
Director of Foundational Al
Research

Partner Institution
University of Oxford



Author Michael Wooldridge

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Section Technology, Culture & Media

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General AI

GPT 3.5 GPT 4

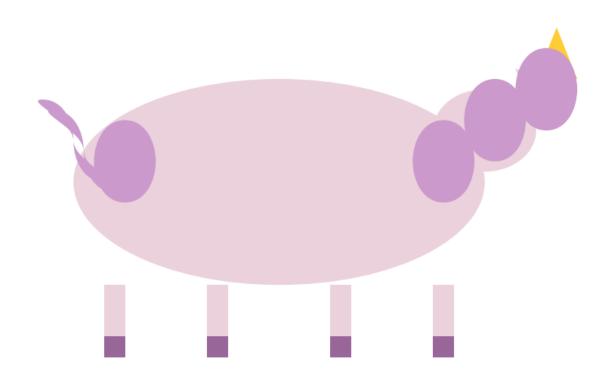
Sparks of Artificial General Intelligence: Early experiments with GPT-4

Sébastien Bubeck Varun Chandrasekaran Ronen Eldan Johannes Gehrke Eric Horvitz Ece Kamar Peter Lee Yin Tat Lee Yuanzhi Li Scott Lundberg Harsha Nori Hamid Palangi Marco Tulio Ribeiro Yi Zhang

Microsoft Research

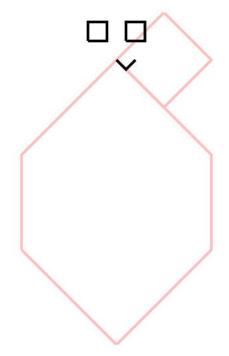
Prompt: Draw a unicorn in TiKZ.

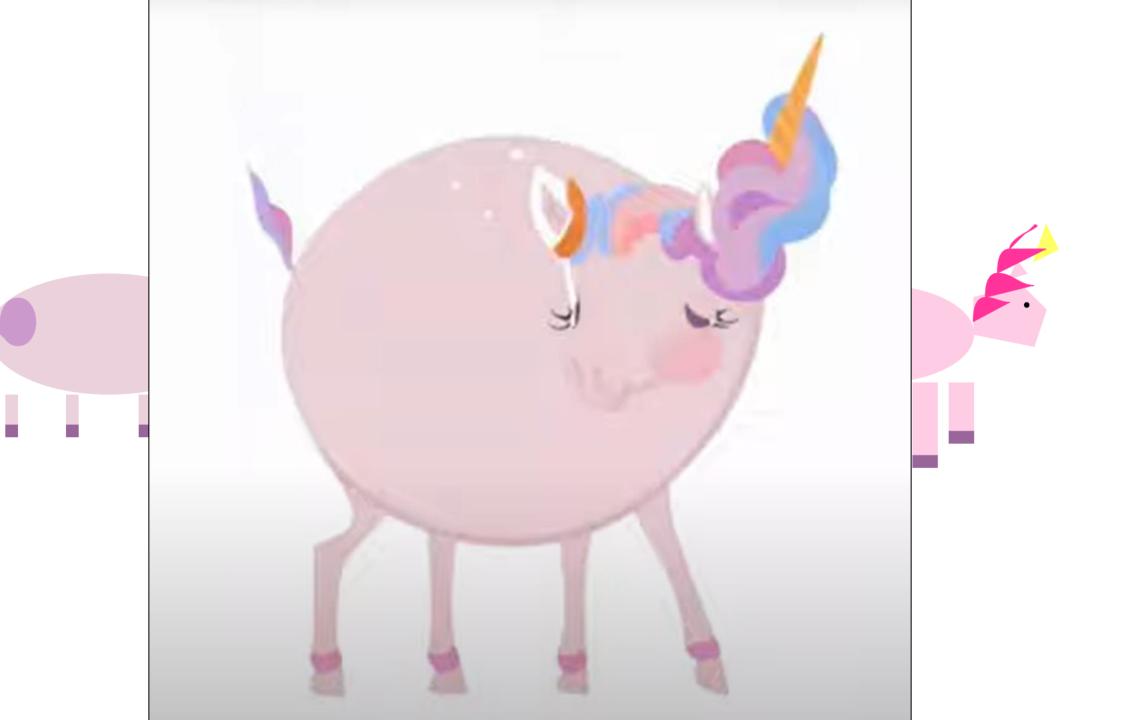
GPT-4: [Produces LATEX compiling to following picture.]



Prompt: Draw a unicorn in TiKZ.

ChatGPT: [Produces LATEX compiling to following picture.]





What does this mean for healthcare?

AI REVOLUTION in MEDICINE

GPT-4 AND BEYOND

Peter Lee | Carey Goldberg | Isaac Kohane

with Sébastien Bubeck

Foreword by OpenAI CEO Sam Altman



We need a Co Pilot

The hours 23 physician specialties spend on paperwork, administration

Andrew Cass - Wednesday, April 19th, 2023



Physical medicine and rehabilitation physicians spend 19 hours per week on paperwork and administrative tasks, according to *Medscape's* "Physician Compensation Report" for 2023.

Overall, physicians spend 15.5 hours per week on paperwork and administration, according to the report. Of that, nine hours are on EHR documentation.

Here are how many hours 23 specialties on paperwork and administrative per week:

1. Physical medicine and rehabilitation: 19 hours

T-2. Critical care: 18 hours

T-2. Internal medicine: 18 hours

T-2. Nephrology: 18 hours

T-2. Neurology: 18 hours

T-2. Oncology: 18 hours

7. Family medicine: 17 hours

T-8. Cardiology: 16 hours

T 0 Dayahiatry 16 hayra



Automatic biomedical report generation

Summarizing medical and genomic data for tumor boards

Translating reports of external patients into actionable data

Tracking progress in clinical trials

Automatic summarization in virtual medical meetings

Mayo Clinic to deploy and test Microsoft generative AI tools

Microsoft and Epic expand strategic collaboration with integration of Azure OpenAl Service

April 17, 2023 | Microsoft News Center





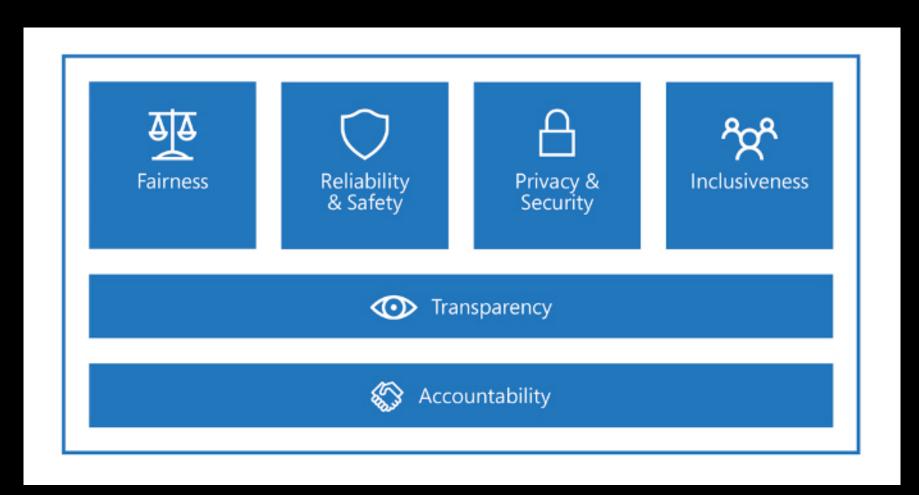


REDMOND, Wash., and VERONA, Wis. — April 17, 2023 — Microsoft Corp. and Epic on Monday announced they are expanding their long-standing strategic collaboration to develop and integrate generative AI into healthcare by combining the scale and power of Azure OpenAl Service¹ with Epic's industry-leading electronic health record (EHR) software. The collaboration expands the longstanding partnership, which includes enabling organizations to run Epic environments on the Microsoft Azure cloud platform.

This co-innovation is focused on delivering a comprehensive array of generative Al-powered solutions integrated with Epic's EHR to increase productivity, enhance patient care and improve financial integrity of health systems globally. One of the initial solutions is already underway, with UC San Diego Health, UW Health in Madison, Wisconsin, and Stanford Health Care among the first organizations starting to deploy enhancements to automatically draft message responses.

GPT hallucinates

Microsoft responsible Al principles



The NEW ENGLAND JOURNAL of MEDICINE

SPECIAL REPORT

Jeffrey M. Drazen, M.D., Editor;
Isaac S. Kohane, M.D., Ph.D., and Tze-Yun Leong, Ph.D., Guest Editors

AI IN MEDICINE

Benefits, Limits, and Risks of GPT-4 as an Al Chatbot for Medicine

Peter Lee, Ph.D., Sebastien Bubeck, Ph.D., and Joseph Petro, M.S., M.Eng.

"The question regarding what is considered to be acceptable performance of general AI remains to be answered."





