

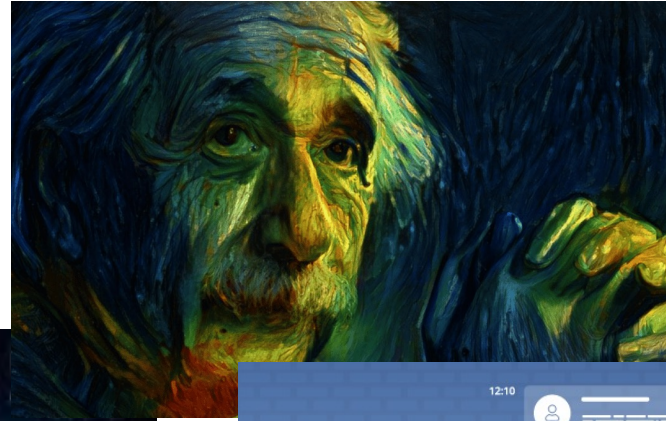
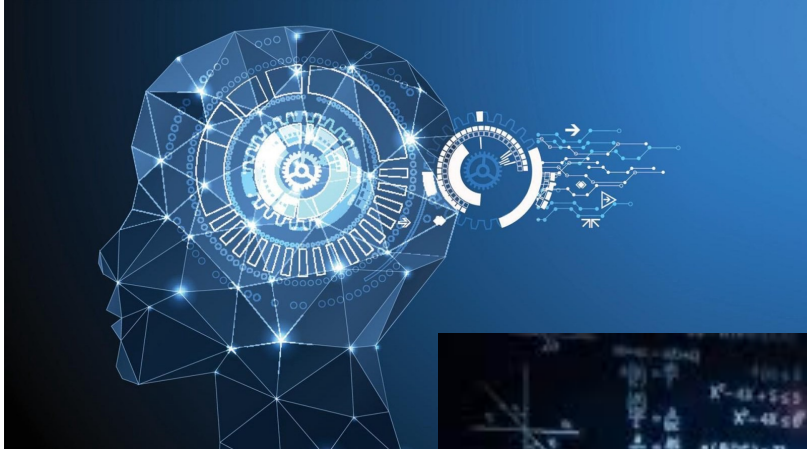
A scene from Star Wars: The Force Awakens. On the left is the droid R2-D2. In the center is a Jawa wearing a white hooded robe. On the right is Finn, wearing a brown uniform. They are standing in a narrow, metallic corridor. A blue banner is overlaid at the bottom of the image.

CHATGPT AND COMMUNICATION: HOW GENERATIVE AI WILL TRANSFORM OUR FIELD

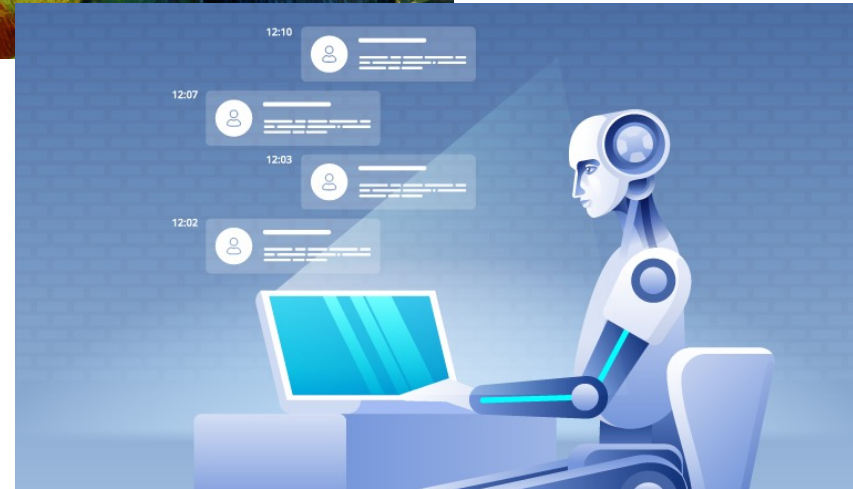
ANAND RAO – MAY 5, 2023

AGENDA

- AI/Machine Learning/Generative AI/Bot
- Chat GPT, GAI, & Present Limitations
- Missing the Future for the Present
- The Promise of GAI
- The Peril of GAI
- It's What We Don't Know...



The Technologies



ARTIFICIAL INTELLIGENCE | MACHINE LEARNING | GENERATIVE AI | BOTS

MSS. and other Communications for the Editor should be addressed to
Prof. G. RYLE, Magdalen College, Oxford.

VOL. LIX. No. 236.

OCTOBER, 1950

MIND
A QUARTERLY REVIEW

OF
PSYCHOLOGY AND PHILOSOPHY

EDITED BY
PROF. GILBERT RYLE

WITH THE CO-OPERATION OF PROF. SIR F. C. BARTLETT AND PROF. C. D. BROAD

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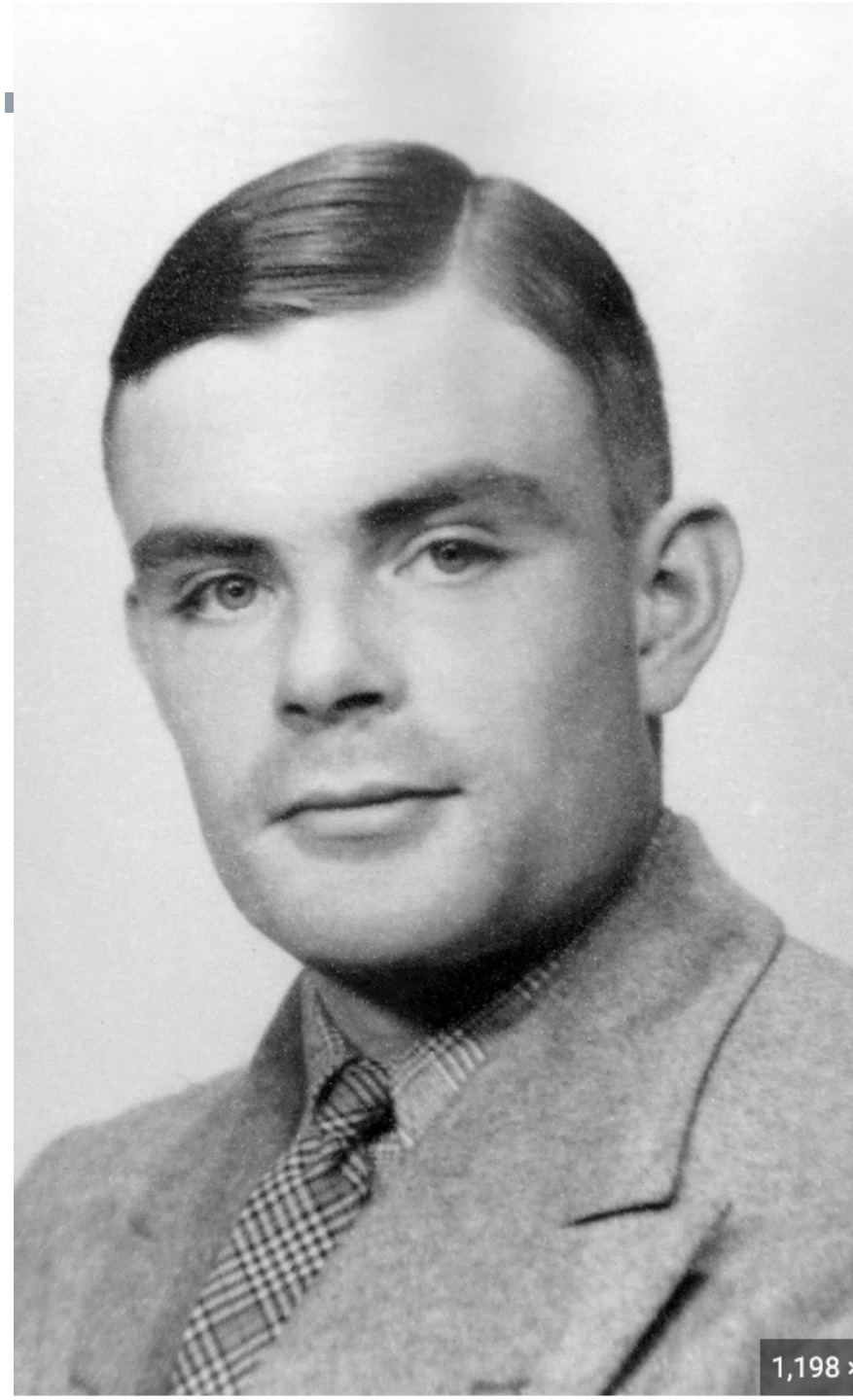
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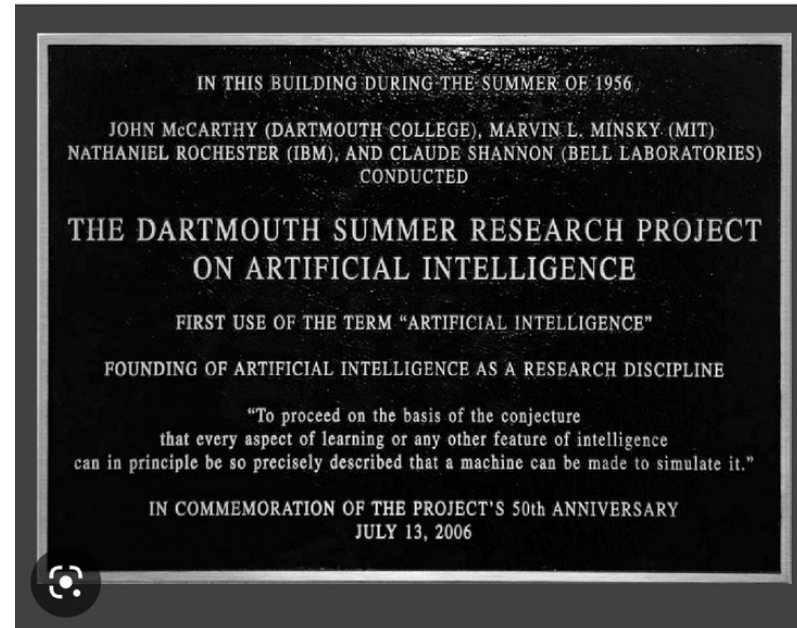
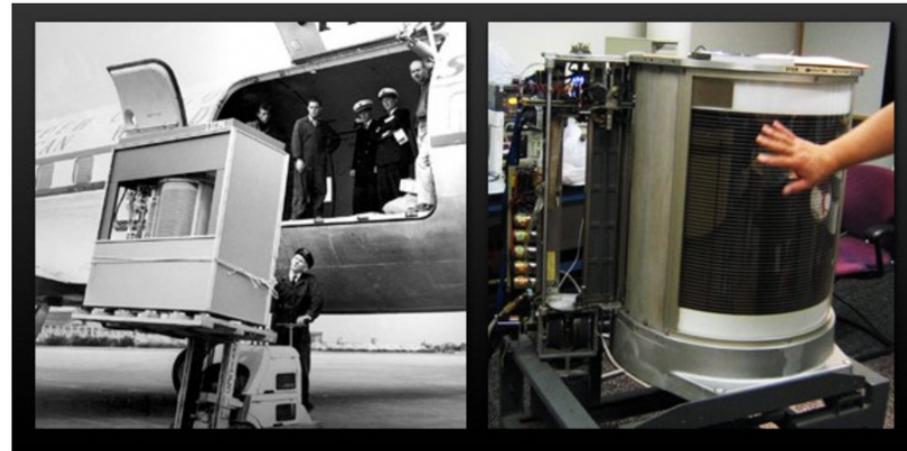


1950s

5 MB disks

Dartmouth Conference

The first hard disk drive was the IBM Model 350 Disk File that came with the IBM 305 RAMAC computer in 1956. It had 50 24-inch discs with a total storage capacity of 5 million characters (just under 5 MB).

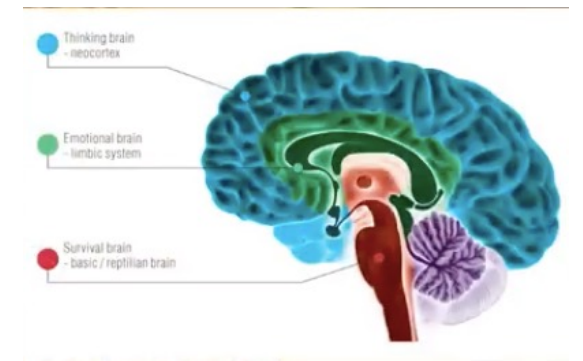


Artificial Intelligence

- Simulate human intelligence capabilities

Intelligence

- No general agreed-upon definition
- Involves reasoning, problem solving, learning
- requires perception, attention, memory, language, planning
- sentient, consciousness, self-aware



ARTIFICIAL (VERY) NARROW
INTELLIGENCE

WEAK ARTIFICIAL INTELLIGENCE



FACIAL RECOGNITION/SPEECH
RECOGNITION



PREDICT SCORES AND MARKETS



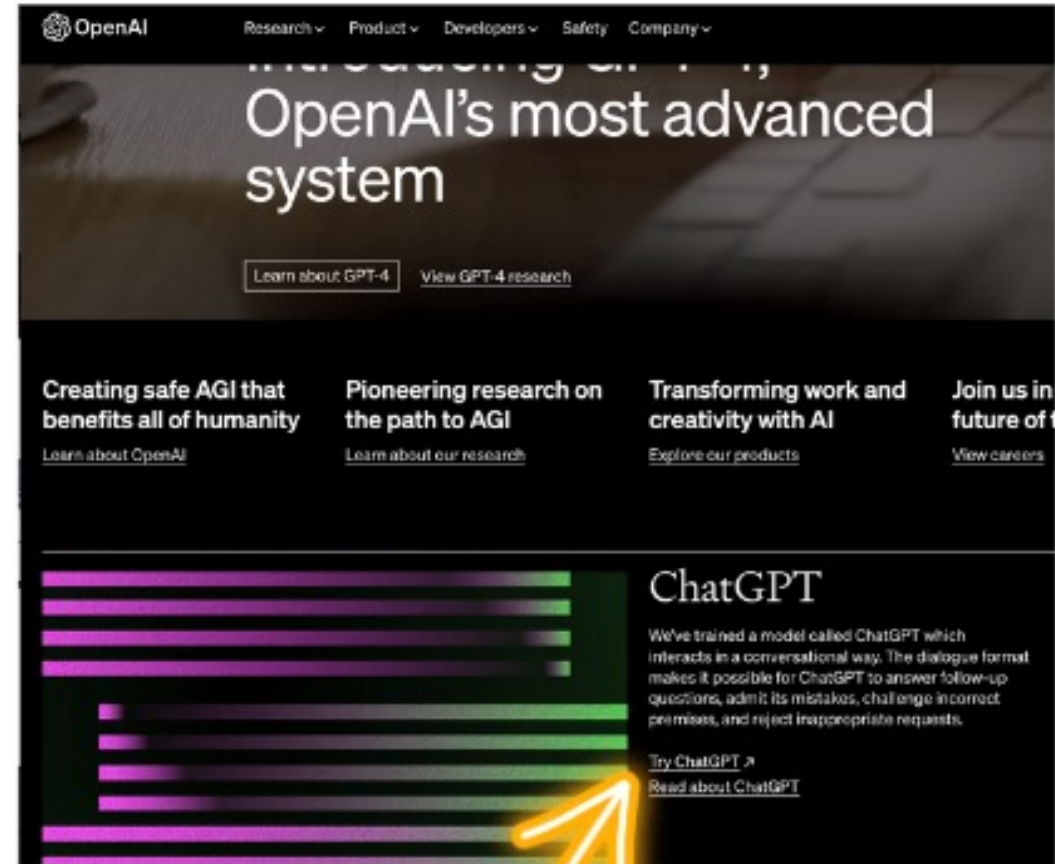
LIMITED INTERACTION (CUSTOMER
SERVICE)



We have so much
information at our
fingertips.

What's Different

- Ask it anything
- Natural language



Not an App



ChatGPT

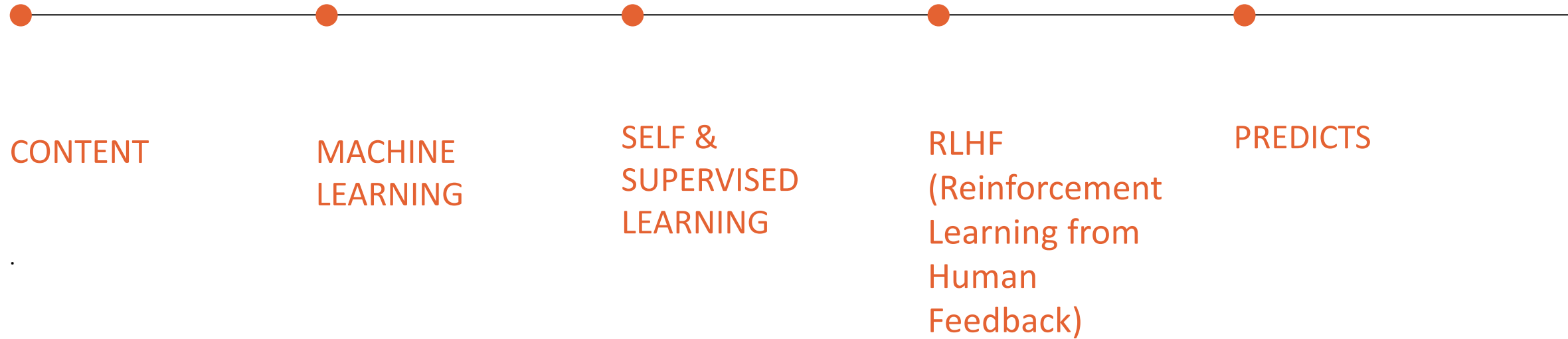
01 GENERATIVE

02 PRETRAINED

03 TRANSFORMER



PRE-TRAINED



Artificial Intelligence

Large Language Model

It produces output based on training,
it is not replicating content from a database.

I saw a cat... on the chair

I saw a cat... running after a dog

I saw a cat... in my dream

I saw a cat... in a book

Limits

01 FACTS

02 CITATIONS

03 POST 2021

04 LIMITED MATH



MISSING THE
FUTURE FOR
THE PRESENT

“THE WORST AI YOU’LL EVER USE IS THE ONE YOU ARE USING NOW.” – ETHAN MOLLIK



Phoning Friends

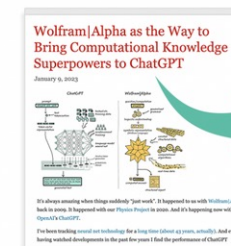


Microsoft Bing search results for "I need to plan a debate in my class for 4 students. How should I structure it?". The search results include links to Harvard's website, a teacher's guide, and various debate formats. A ChatGPT chat window is open on the right, displaying a response to the query.

[ChatGPT Doing ... and Why Does It Work? »](#)

ChatGPT Gets Its “Wolfram Superpowers”!

March 23, 2023



January 9, 2023

Used Wolfram

Here is the current configuration of Jupiter's Galilean moons:

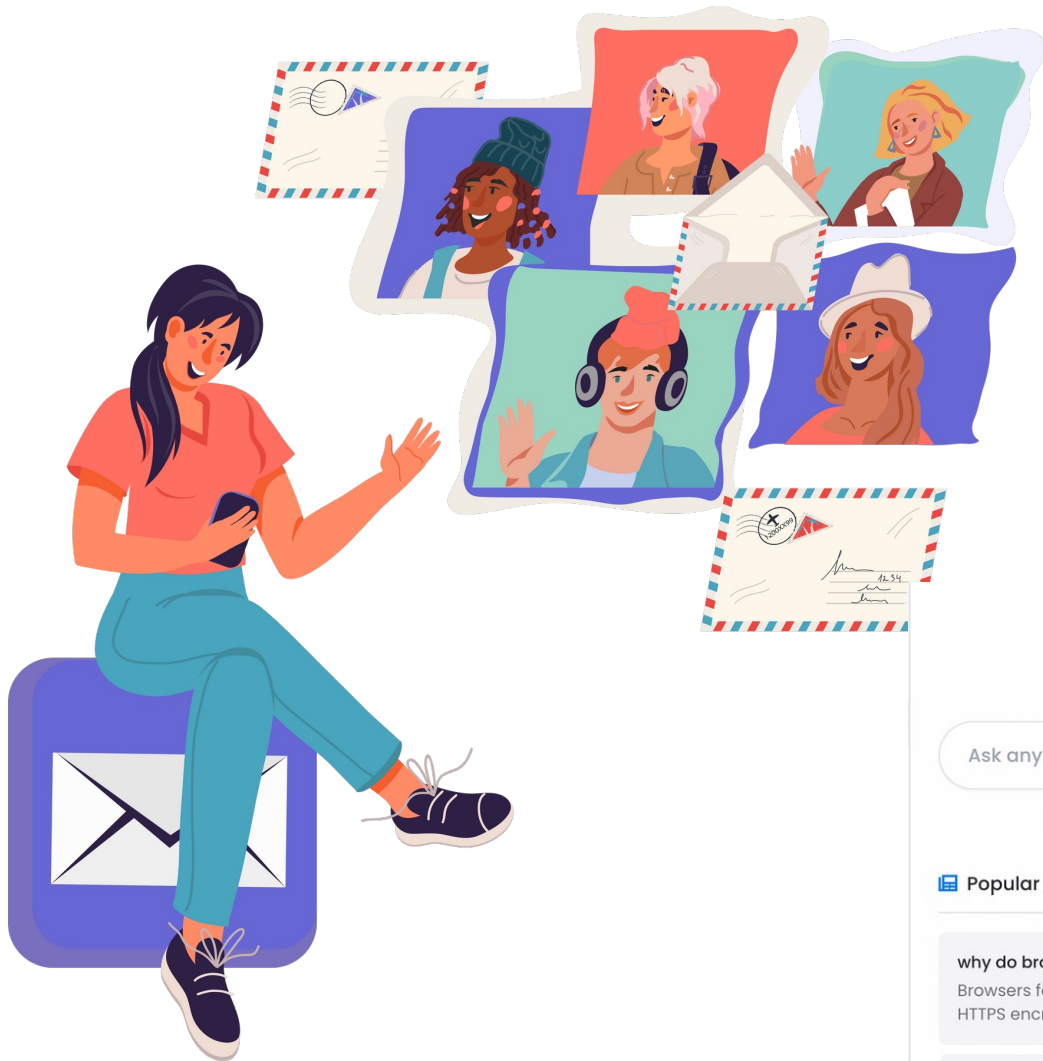
Callisto | Europa | Jupiter | Io | Ganymede (as viewed from Earth)

ons of the Galilean moons are they orbit Jupiter. The image at a specific point in time.

Wolfram
install

Access computation, m ChatGPT Gets its “Wolfram Superpowers”! knowledge & real-time Wolfram|Alpha and Wolfram Language ymede, and Callisto):

Moon	Mass (kg)	Average Radius (mi)	Rotation Period	Age (billion yr)
Io	8.9208 × 10 ²²	1131.82	42.46 h	4.5
Europa	4.7967 × 10 ²²	969.84	85.22 h	4.5
Ganymede	1.4815 × 10 ²³	1635	7.155 days	4.5
Callisto	1.0767 × 10 ²³	1497.7	16.69 days	4.5



Phoning Friends

Home > Extensions > WebChatGPT: ChatGPT with internet access

WebChatGPT: ChatGPT with internet access Remove from Chrome

webchatgpt.app

★★★★★ 337 | Productivity | 900,000+ users

Overview Privacy practices Reviews Support Related

Perplexity

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best swimsuits this summer	best cocktails for summer time

Model
Web Browsing (GPT-4) ALPHA

Default (GPT-3.5) with browsing ALPHA

Default (GPT-3.5)

GPT-4

Legacy (GPT-3.5) [Deprecating Soon]

Web Browsing (GPT-4) ALPHA ✓

ChatGPT **PLUS**

SAM ALTMAN ON CHATGPT VS. BING

- Sam Altman: Yeah, Chat GPT is a horrible product... if you think about the way people want to integrate it into their workflow, the way that you want it to be able to use your own data, to integrate with your other applications and services, people are really just going to a site that sometimes works and sometimes it's down. They're typing in something. They're trying to get until they get it right. And they're copying the answer, and going to paste it somewhere else, and then going back, and trying to integrate that with search results. Or there are other workflows.
- It is cool, for sure. And people really love it, which makes us very happy. But no one would say this was a great, well-integrated product yet.
- Casey Newton: It's not the 1.0 version.
- Sam Altman: Yeah, it's the 0.7 or something like that. But there's so much value here, that people are willing to put up with it. And this [Bing] is a real product now.



THE PROMISE OF GAI

BING

- Launched on Feb 6th
- Waitlist with preview access
- Built on Prometheus (GPT-3+)
- Live web searches
- 1 million signed up in 48 hours

The screenshot displays the Microsoft Bing homepage. At the top left, the Microsoft logo is followed by "Microsoft Bing". In the center, there are "SEARCH" and "CHAT" buttons. On the top right, the user's name "Anand" and a profile icon with the number "280" are visible. The main content area features the Bing logo, the heading "Welcome to the new Bing", and the subtext "Your AI-powered answer engine". Below this, there are three columns of content, each with an icon, a heading, and a sample question:

- Ask complex questions** (🧐 icon): "What are some meals I can make for my picky toddler who only eats orange-colored food?"
- Get better answers** (👉 icon): "What are the pros and cons of the top 3 selling pet vacuums?"
- Get creative inspiration** (🎨 icon): "Write a haiku about crocodiles in outer space in the voice of a pirate"

MICROSOFT IS MAKING THE MOST OF ITS INVESTMENT

MICROSOFT / TECH / ARTIFICIAL INTELLIGENCE

Microsoft to demo its new ChatGPT-like AI in Word, PowerPoint, and Outlook soon

- Available Now:
 - Viva Sales
 - Azure Open AI Service
 - Teams Premium
- Expected Soon:
 - Outlook
 - Word
 - PowerPoint
 - Excel



Illustration by Alex Castro / The Verge

/ CEO Satya Nadella wants the software giant to push hard on AI, so Microsoft is gearing up for a year of AI announcements.

By **TOM WARREN** / @tomwarren

Feb 10, 2023, 7:02 AM EST | [18 Comments](#) / [18 New](#)



TEAMS PREMIUM

- Available Now
- AI-generated chapters in PowerPoint Live
- Live translations in captions
- Automatic meeting notes

The screenshot displays a Microsoft Teams Premium meeting interface for a meeting titled "Sales Analysis Review". The meeting is in progress, starting on Jan 21 at 10:30 AM. The interface is divided into several sections:

- Meeting Content:** A grid of video thumbnails for participants including Serena Davis, Aadi Kapoor, Ray Tanaka, Danielle Booker, and Crystal. A "Recap" tab is active, showing a "Meeting content" section with links to "Sales report Q4...", "Capacity stats list...", and "VanArsdelPitchDe...".
- AI Notes:** A section titled "Your personal AI suggested notes and tasks" is visible. It includes a "Suggested notes" list with three items, each with a timestamp and a duration:

Note	Timestamp	Duration
▶ Serena wants to look at the sales report before she and Beth spend more budget on the campaign.	5:00	5:00
▶ Beth explains that they are on track for new product release in December. But they will need to keep an eye on advertisement budget. She will follow up on that.	5:05	5:05
▶ Beth explains that they are managing the capacity well. They could be a problem if they get more popular. Babak is going to double check on that.	5:34	5:34

- Suggested tasks:** A list of tasks generated from the meeting, including "Beth will follow up on advertisement budget." and "Jon Shammass will double check with **Amanda** regarding the ETA for the release of the new product."

At the bottom of the interface, there is a "Speakers" section with a timeline for participants: Mona Kane, Babak Shammass, and Daniela Mandera.

TEAMS FOR EDUCATION

- Launching for 2023-2024
- "Learning Accelerators"
- Speaker Progress – companion for Speaker Coach
- Math Coach and Math Progress

The screenshot shows the Microsoft Teams interface for a presentation titled "AP Euro Mid-Semester Presentation". The main content area displays a "Your Rehearsal Report" with two tabs: "Rehearsal Report" (selected) and "Suggestions".

Summary: Good job rehearsing your presentation! Keep up the hard work. 9:50 total time spent, 12 slides rehearsed.

Body Language: Suggestions for a more engaging presentation:

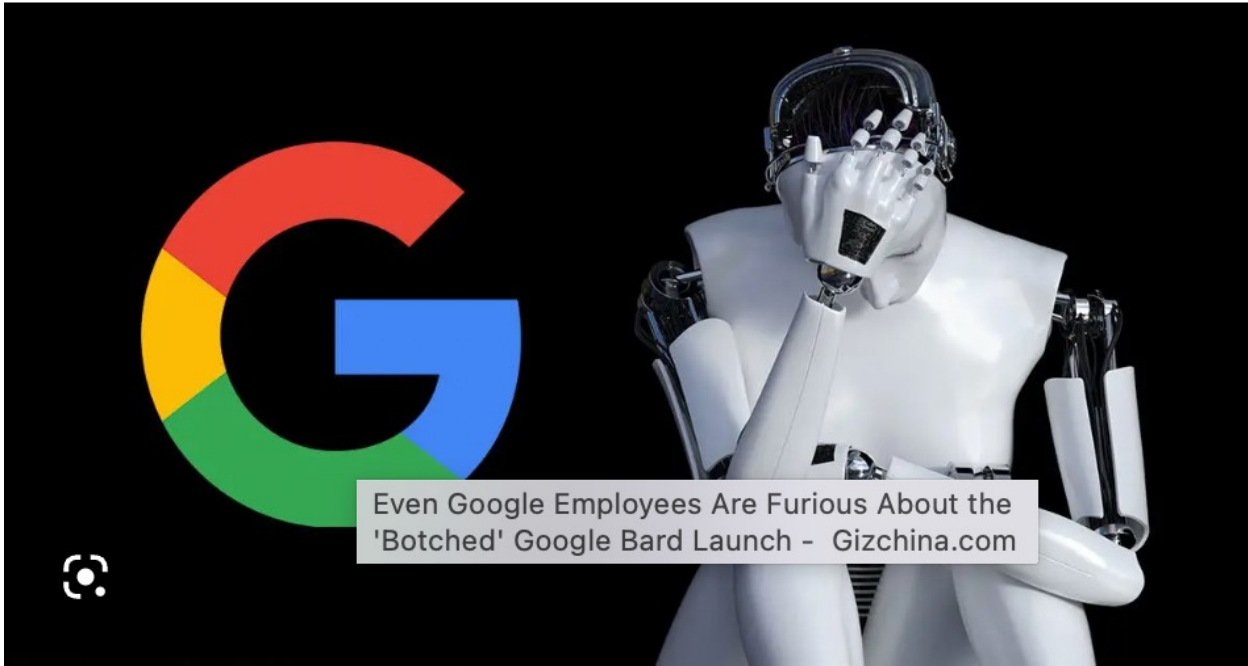
- Eye contact:** You kept your gaze forward (Green checkmark).
- Clear view:** Keep the view of your face clear. Includes a sub-section for "Obstructed view" (1) and "Good" (1) with corresponding video thumbnails.
- Distance:** You kept a consistent distance (Green checkmark).

Pace: A gauge shows a current pace of 139 words/min, between 100 (slow) and 150 (fast). Text: "Your pace is just right. Keep it up!". Includes a dropdown for "Your average pace over time" and a "Learn more" link.

Pitch: Text: "Low pitch variation means you may have sounded monotone. Try to talk with liveliness to engage your audience." Includes a line graph showing pitch variation over time (0:10 to 0:50) with a "Target" range and a "Monotone" label. Includes a "Learn more" link.

Fillers: Text: "To sound more polished and confident, pause and relax to avoid filler words:". Lists filler words: "um", "like", "you know", "basically". Includes a "Learn more" link.

Microsoft



Even Google Employees Are Furious About the 'Botched' Google Bard Launch - Gizchina.com

BARD (AND ITS POTENTIAL....)



What new discoveries from the James Space Webb Telescope can I tell my 9 year old about?



Your 9-year old might like these recent discoveries made by The James Webb Space Telescope (JWST):

- In 2023, The JWST discovered a number of galaxies nicknamed "green peas." They were given this name because they are small and round, like peas.
- The telescope captured images of galaxies that are over 13 billion years old. This means that the light from these galaxies has been traveling for over 13 billion years to reach us.
- JWST took the very first pictures of a planet outside of our own solar system. These distant worlds are called "exoplanets". Exo means "from outside".

These discoveries can spark a child's imagination about the infinite wonders of the universe



Grant Tremblay
@astrogrant · Follow



Not to be a ~well, actually~ jerk, and I'm sure Bard will be impressive, but for the record: JWST did not take "the very first image of a planet outside our solar system".

the first image was instead done by Chauvin et al. (2004) with the VLT/NACO using adaptive optics.





Andrej Karpathy ✓

@karpathy

The hottest new programming language is English

3:14 PM · Jan 24, 2023 · **1.9M** Views

2,084 Retweets

298 Quote Tweets

18K Likes

ARTIFICIAL INTELLIGENCE – GENERATIVE ART



Creates human-like artwork similar to how GPT creates coherent speech- artificial neural networks.

Mimics human creativity- using thousands of human-created pieces to create a specific style.

DALL-E

Name Dall-E- Salvador Dali x Wall-E

An Open-AI model which uses a modified version of GPT-3 to generate images

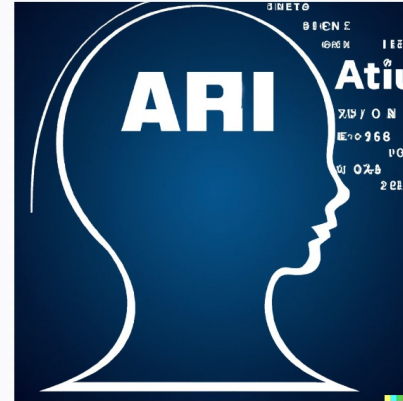
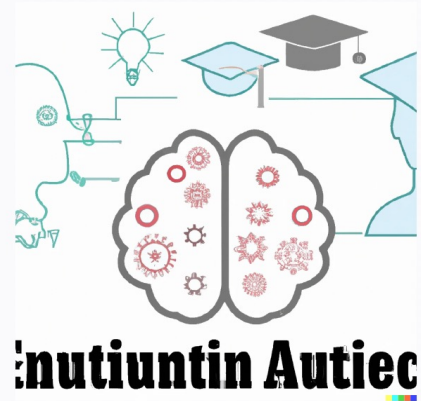


Edit the detailed description

Surprise me Upload →

AI and education

Generate



IMPLICATIONS FOR ART



- Copyright concerns, no protections for machines
- Theft of pre-existing art?
- Algorithmic bias in action?
- Mimicry, not real art



FOCUSED USE

OTTER AI

Note

Edit

📅 Thu, Mar 11, 2021 . 12:39 PM ⌚ 9:41 👤 Owner: Sebastian Rao

SUMMARY KEYWORDS

vaccine, vaccinated, teaching, students, sense, person, biggest obstacle, teachers, madonna, mask, mid february, yearbook, change, appointment, side effects, capacity, recommend, q&a section, visited, arriving

SPEAKERS

Speaker 1

[Home](#) > [Extensions](#) > [Otter.ai: Transcribe, Record Meeting Notes](#)



Otter.ai: Transcribe, Record Meeting Notes



★★★★★ 20 ⓘ | [Productivity](#) | 90,000+ users

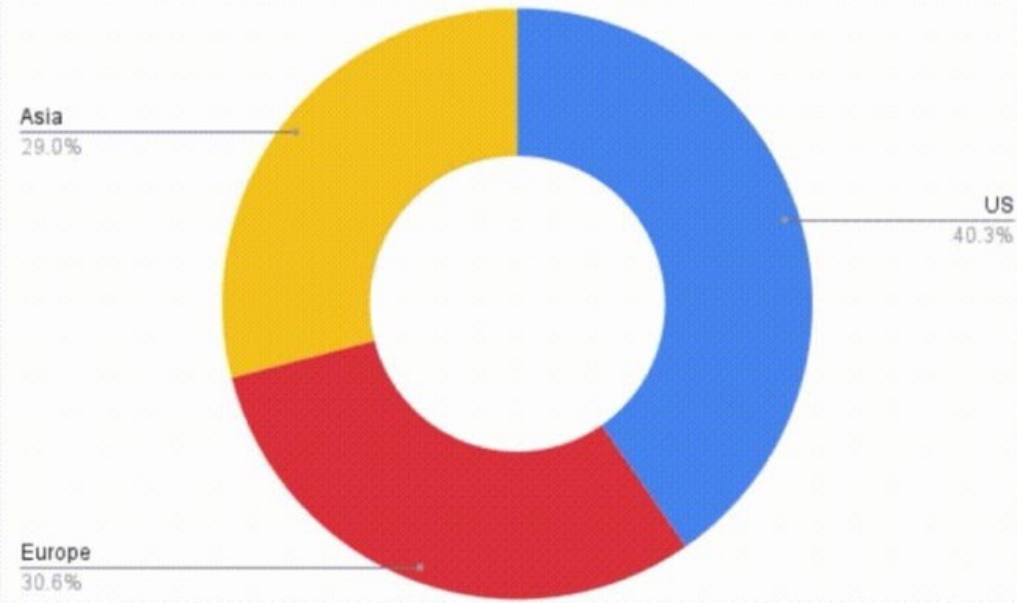


Get it Fast

Otter uses AI to convert hours of audio and video recordings to text in minutes

1. Otter transcribes audio, including meetings in real time
2. OtterPilot with AI adds capture of visuals, including slides, providing expansive meeting notes

Team Wins!



Alicia 0:00

Welcome everyone. We had a great March delivering a record number of new customers from the US. Dylan, can you share the charts?



Dylan 1:35

Sure, thanks, Alicia. As you can see, we surpassed all of our previous goals and records for the last three months. Great work team!



Siya 3:01

This is so exciting, but I've got to run to another sales call, so I need to drop off now. I'll catch what I missed in the Otter notes later.



Team Wins!

Meeting Summary

- 00:00
Welcome
- 01:35
Record number of new customers
- 11:31
Highlighting a key win in Europe
- 18:00
Q3 Sales Goals and Assignments
- 22:27
Next steps and actions

Perplexity.ai



1. LLM product for search
2. Similar to Bing Chat
3. Included search results seem to be reliable
4. Responsive to formatting and follow-up queries

Caktus.ai



- Intended for educators to rethink the classroom experience
- Personalize lessons for students
- Can be used by students, as well
- Caktus AI Writer
- Text summarizer
- Math & science tools
- Cover letters and resumes

QuillBot



QuillBot

Write faster, better and smarter

- I. AI writing tool to paraphrase, summarize, and check grammar and spelling



AutoGPT

Develop simple.c x

```
1 #include <stdio.h>
2
3 int main() {
4     int a = 1071;
5     int b = 462;
6     printf("simple(%d, %d)\n", a, b);
7     develop(a, b);
8     printf("develop(%d, %d)\n", a, b);
9     return 0;
10 }
11
12 int develop(int a, int b) {
13     int t;
14     int cnt = 0;
15     while (b != 0) {
16         cnt++;
17         t = b;
18         b = a % b;
19         a = t;
20     }
21     printf("counter(develop) = %d\n", cnt);
22     return a;
23 }
24
25 /Users/documents/process/develop/simple_test
26 counter(simple) = 442
27 simple(1071, 462)= 21
28 counter(develop) = 3
29 develop(1071, 462)= 21
30 ss finished with exit code 0
31
32 }
```

Project

- test_develop
- test_run

#



THE PERIL OF GAI

DEEP FAKES

What is real?



Jake Lewis
@jake___lewis



First time I've seen this - Twitter account pops up, tweets a video of a political candidate (Paul Vallas) saying something with what seems like a fake, AI generated voice

The fake was sniffed out quickly in the replies, and then the account + tweet were promptly deleted

safety in Chicago:

"Back in my day, cops would kill 17 or 18 civilians in their career and nobody would bat an eye."

"We need to stop de-funding the police and start re-funding them"

Chicago Lakefront News
@LakefrontNews · 2h
Mayoral Candidate @PaulVallas on public safety in Chicago: ... more

50.3K views 13.4K

9:47 PM · Feb 26, 2023 · 181.6K Views



[Submitted on 25 Apr 2023]

Seeing is not always believing: A Quantitative Study on Human Perception of AI-Generated Images

Zeyu Lu, Di Huang, Lei Bai, Xihui Liu, Jingjing Qu, Wanli Ouyang

Photos serve as a way for humans to record what they experience in their daily lives, and they are often regarded as trustworthy sources of information. However, there is a growing concern that the advancement of artificial intelligence (AI) technology may produce fake photos, which can create confusion and diminish trust in photographs. This study aims to answer the question of whether the current state-of-the-art AI-based visual content generation models can consistently deceive human eyes and convey false information. By conducting a high-quality quantitative study with fifty participants, we reveal, for the first time, that humans cannot distinguish between real photos and AI-created fake photos to a significant degree 38.7%. Our study also finds that an individual's background, such as their gender, age, and experience with AI-generated content (AIGC), does not significantly affect their ability to distinguish AI-generated images from real photographs. However, we do observe that there tend to be certain defects in AI-generated images that serve as cues for people to distinguish between real and fake photos. We hope that our study can raise awareness of the potential risks of AI-generated images and encourage further research to prevent the spread of false information. From a positive perspective, AI-generated images have the potential to revolutionize various industries and create a better future for humanity if they are used and regulated properly.

The Future of AI is Here: What can you do with GPT-4? - LIVE with OpenAI & Elon Musk



Open AI

5.55K subscribers

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1.8K



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1,048 watching now Started streaming 2 hours ago #ChatGPT #OpenAI #AI

Unlocking the Power of AI: Everything You Need to Know About OpenAI and ChatGPT - The Revolutionary Chatbot Changing the Game!"

In this video, we dive deep into the world of AI with OpenAI and their game-changing ChatGPT. From the OpenAI Playground to OpenAI Whisper, we cover everything you need to know about the technology behind this impressive chatbot. Learn how to use ChatGPT with our comprehensive tutorial and explore the capabilities of this incredible machine learning system.

Screenshot

Discover the differences between ChatGPT and GPT-4 and stay up-to-date with the latest news and

Top chat ▾

messages

- Open AI** Join the cryptocurrency event now!
- Open AI** Double (2X) your #BTC #ETH in partnership with Elon Musk
- Open AI** For example:
- Open AI** Send 1+ ETH, get 2+ ETH
- Open AI** Send 0.1+ BTC, get 0.2+ BTC
- Open AI** More info: <https://future-promo.com>
- Open AI** Over 720 BTC & 5,800 ETH have already been sent to live stream viewers.

Subscribers-only mode. Messages that appear are from people who've subscribed to this channel 2.5 years or longer.

Subscribers-only mode

Hide chat

All From Open AI AI Elon >

Max ROUND Max Tegmark:

GhostWriter977

Drake and the
Weeknd

The Presidents have
a heart to heart at
3am while gaming



IT'S WHAT WE
DON'T
KNOW...

NEWS

Home | War in Ukraine | Coronation | Climate | Video | World | US & Canada | UK | Business | Tech

AI 'godfather' Geoffrey Hinton warns of dangers as he quits Google

1 day ago · Comments



Watch: AI 'godfather' Geoffrey Hinton tells the BBC of AI dangers as he quits Google

05-02-23 | 5:00 AM

Humans should fear AI—but not for the reasons we can imagine

Risk projections can't see around the corners of technology. So how does humanity design a world for dangers that are unknown?



[Source Image: Antonio M. Rosario/Getty Images]

CHAT (GPT)

Navigating the Impact of Generative AI
on Education Theory and Practice

A Book Written by Educators

Chat(GPT): Navigating the Impact of Generative AI on Education Theory and Practice

Published on March 27, 2023

Amazon Kindle and Print

Anand Rao

arao@umw.edu