



AI for Everyone:

Embrace It,
Thrive,
and Have Fun!

Grégory Renard © 2025

<https://www.gregory-renard.com>

https://fr.wikipedia.org/wiki/Gregory_Renard

-

<https://x.com/Redo>

<https://www.linkedin.com/in/gregoryrenard/>

Gregory Renard

Turning Visionary Artificial Intelligence into Measurable Business Impact at Scale. Your AI becomes an ethical profit engine.

Hands-on AI architect since 1996 | Belgian-born, French-built, Silicon-Valley California-boosted.

- 25+ years of Applied AI at scale · **NASA FDL 2022 Applied AI Award of Merit**
- **Officer, Order of Merit** - Wallonia, Belgium 2025 - AI & Ethics
- Co-Initiator of **AI4Humanity Strategy for France 2018** and **Everyone.AI 2016**
- 50+ AI Publications & Patents | TEDx, Stanford, UC Berkeley, MIT, IAS Lecturer



Gregory Renard is a pioneering Artificial Intelligence architect and entrepreneur with 25 + years of experience in applied NLP, Knowledge Graph, LLM and large-scale AI systems.

<https://www.gregory-renard.com>

https://fr.wikipedia.org/wiki/Gregory_Renard

Co-Pilot Vision (Time-Saving Economy)

Pioneer of NLP & Dialogue Systems in Call Centers, Laying the Foundation for Future AI Applications to Save Time and Enhance Quality.

Personal Digital Assistant Platform for Cars (Paris - SF)

Developed the Personal Digital Assistant Platform for cars for major car manufacturers, propelling AI into the automotive industry.

Era of Hyperproductivity

Develops innovative models to deduce human values and analyze customer feedback, achieving results 100x faster. Supports fundraising of over \$300M for early-stage startups, fueling AI innovation.

1996

2006-2012

2014

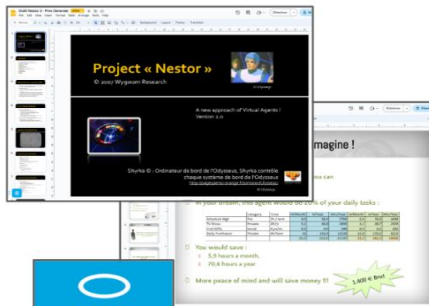
2017-2018

2020-2021

2022

First French Personal Digital Assistant - Angie (Lille-Paris)

Launched the first Personal Digital Assistant platform and Angie, the first French Personal Digital Assistant, advancing conversational AI.



AI for Humanity - Initiates the Everyone.AI community to democratize access to AI.

Co-author of the Holberton Turing Pledge, establishing ethical standards for AI development, while advising President Macron and governments. Contributes to France's "AI for Humanity" initiative.

Influences AI's ethical guidelines and practices in Europe.



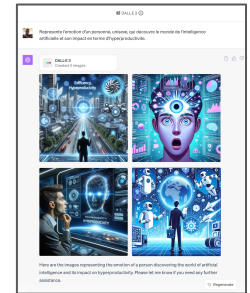
NASA 2022 Merit Award Winner in Applied AI

Awarded the NASA 2022 Merit Award in Applied AI, recognizing groundbreaking contributions to space and Earth science, solidifying my status as a global leader in applied AI.






Generative AI is for Everyone



DALL-E generated

“Illustration of an individual, gender-neutral, surrounded by holographic screens displaying charts, graphs, and AI algorithms, their eyes widened with amazement.”

A Change of Civilization !!?



Andrew Ng
@AndrewYNg

Following

"AI is the new electricity!" Electricity transformed countless industries; AI will now do the same.

"L'IA est la nouvelle électricité ! L'électricité a transformé d'innombrables industries ; L'IA va maintenant faire de même."

Andrew Ng - Stanford
25 Janvier, 2017




Sam Altman ✓
@sama

2023: \$30,000 to get a simple iPhone app created, \$300 for a plumbing job.

i wonder what those relative prices will look like in 2028!

the likely coming divergence between changes to cognitive work and changes to physical work could be quite dramatic.

2:10 PM · Feb 15, 2023 · 3.4M Views



Gregory Renard (He/Him) · You
Applied AI Architect · FDL SETI NASA 2022 AI Award · 25+ Yrs in NL...
10mo · 🌐

🔥 Human Language as the New Programming Language: A Reflection on Human-AI Interaction 🔥

Inspired by Andrej Karpathy's tweet, "The hottest new programming language is English" (or Language), and reflecting on my own experience in the field, it's become increasingly clear that the new programming language is not just English but more broadly, any human language. Ultimately, human language is the most effective strategy we have for sharing and expressing ideas, knowledge, and emotions. Language is a mirror of the soul in general and thus, it is so much more than just a container of information or knowledge.

<https://www.linkedin.com/feed/update/urn:li:activity:7061780618799448064/>



Yann LeCun ✓
@ylecun

Totally Unexpected Achievement unlocked:
A 100-meter portrait of me was displayed on the Burj Khalifa in Dubai, yesterday at 9:00 pm.

I'm in Dubai for the World Government Summit, but I didn't know this was going to happen and was at a dinner out of town.

Pinned



Andrej Karpathy ✓ @karpathy · Jan 24, 2023

The hottest new programming language is English

726 4.6K 29K 3.8M



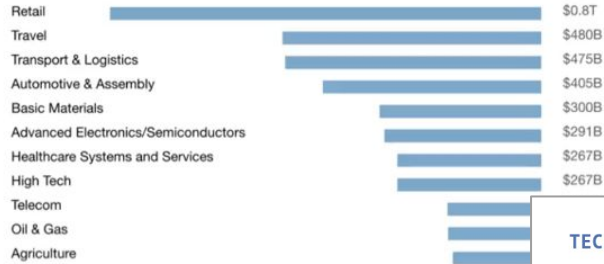
9:18 PM · Feb 14, 2024 · 347.8K Views

205 229 4.3K 193

Value Creation Through AI

AI value creation
by 2030

\$13
trillion



TECHNOLOGY | ARTIFICIAL INTELLIGENCE

Sam Altman Seeks Trillions of Dollars to Reshape Business of Chips and AI

OpenAI chief pursues investors including the U.A.E. for a project possibly requiring up to **\$7 trillion**

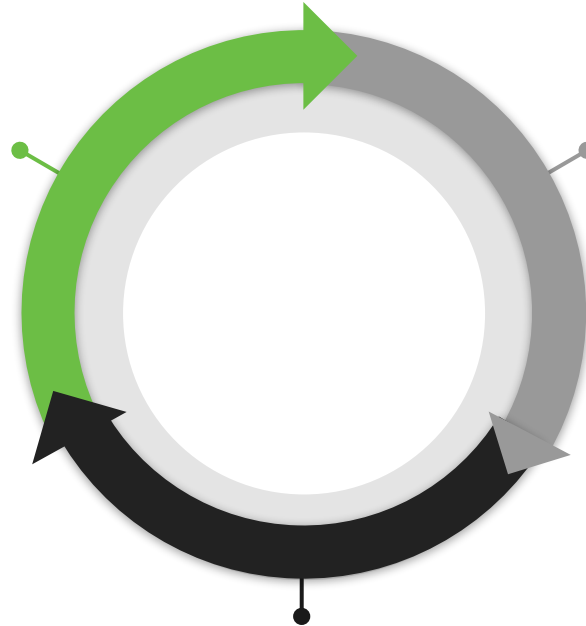
By [Keach Hagey](#) [Follow](#) and [Asa Fitch](#) [Follow](#)

Feb. 8, 2024 9:00 pm ET

Data Usage Stage

3. No DATA (Prompt)

A prompt is a statement or question given to a language model to generate a response. It provides instructions or starting text that guides the model to generate coherent and relevant text. It can also be used to provide context or a specific type of text.



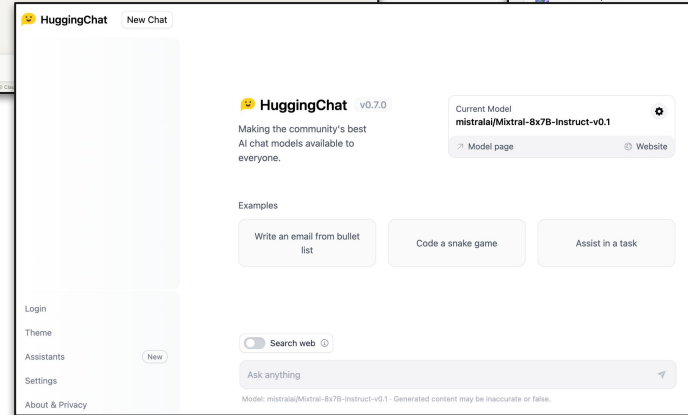
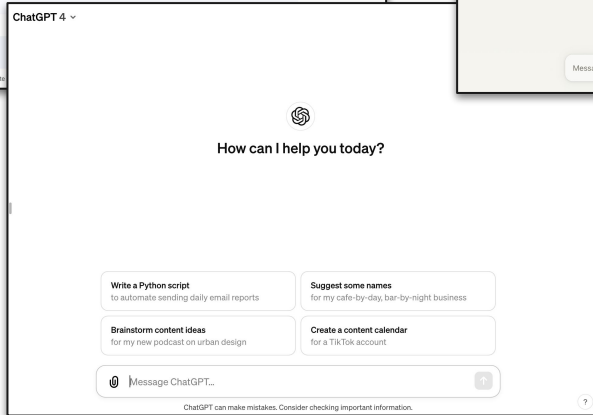
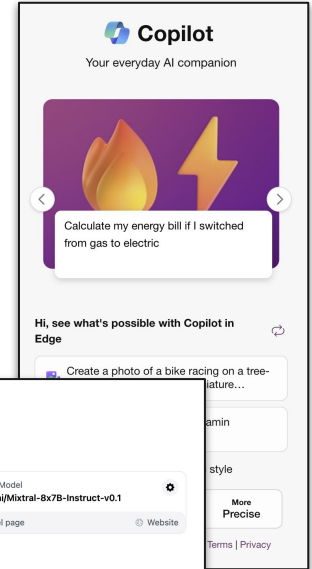
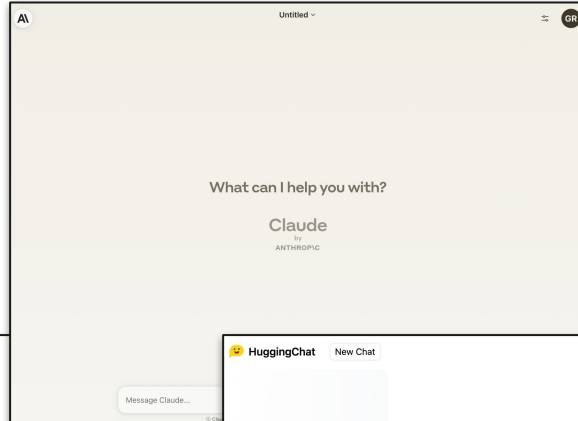
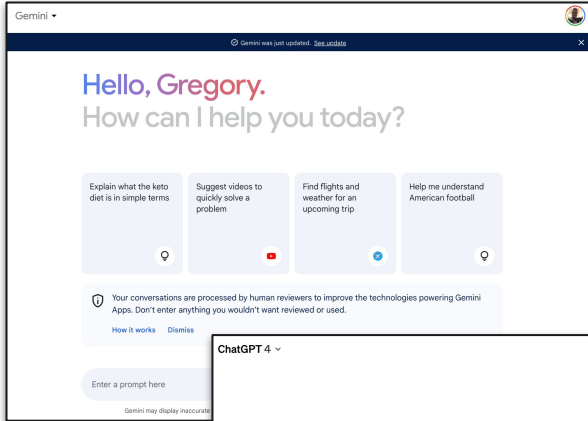
1. Big DATA (Lots of Data)

Big DATA refers to extremely large and complex data sets that require specialized techniques for processing and analysis. Characterized by the 3Vs: Volume, Velocity, and Variety. Big DATA can come from various sources and can be used to gain insights and improve decision-making across different fields.

2. Good DATA

Good DATA are high-quality, abundant, diverse, clean, and labeled data that are representative of the population they are intended to model, free from errors and inconsistencies, and relevant to the task at hand.

Our new digital co-workers...





Model ⓘ

GPT-4o ✓
Great for most tasks

GPT-4o with canvas BETA
Collaborate on writing and code

o1-preview
Uses advanced reasoning

o1-mini
Faster at reasoning

More models >

Temporary chat



- Tell me the country with the most Olympic athletes
- Suggest a recipe based on a photo of my fridge
- Create a Renaissance-style painting
- Text inviting neighbors to barbecue

Attention Is All You Need

Ashish Vaswani, Noam Shazeer, Niki Parmar, Jakob Uszkoreit, Llion Jones, Aidan N. Gomez, Lukasz Kaiser, Illia Polosukhin

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks in an encoder-decoder configuration mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-French translation task, over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single-model state-of-the-art BLEU score of 41.8 over the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with

Comments: 15 pages, 5 figures

Subjects: **Computation and Language (cs.CL)**; Machine Learning (cs.LG)

Cite as: arXiv:1706.03762 [cs.CL]

(or arXiv:1706.03762v7 [cs.CL] for this version)

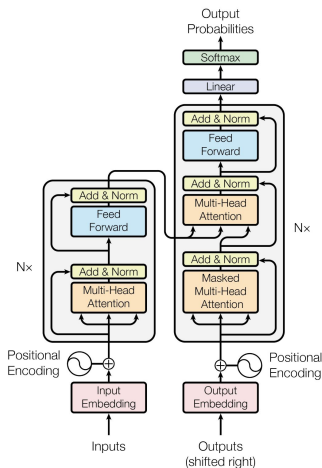
<https://doi.org/10.48550/arXiv.1706.03762>

Figure 1: The Transformer - model architecture.

Provided proper attribution is provided, Google hereby grants permission to reproduce the tables and figures in this paper solely for use in journalistic or scholarly works.

Attention Is All You Need

Ashish Vaswani* Google Brain avaswani@google.com
Noam Shazeer* Google Brain noam@google.com
Niki Parmar* Google Research nikip@google.com
Jakob Uszkoreit* Google Research uszk@google.com

Llion Jones* Google Research llion@google.com
Aidan N. Gomez*¹ University of Toronto aidan@cs.toronto.edu
Lukasz Kaiser* Google Brain lukaszkaizer@google.com

Illia Polosukhin*²
 illia.polosukhin@gmail.com

Abstract

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks that include an encoder and a decoder. The best performing models also connect the encoder and decoder through an attention mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely. Experiments on two machine translation tasks show these models to be superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-German translation task, improving over the existing best results, including ensembles, by over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single-model state-of-the-art BLEU score of 41.8 after training for 3.5 days on eight GPUs, a small fraction of the training costs of the best models from the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with large and limited training data.

^{*}Equal contribution. Listing order is random. Jakob proposed replacing RNNs with self-attention and started the effort to evaluate this idea. Ashish, with Illia, designed and implemented the first Transformer models and has been crucially involved in every aspect of this work. Noam proposed scaled dot-product attention, multi-head attention and the parameter-free position representation and became the other person involved in nearly every detail. Niki designed, implemented, tuned and evaluated countless model variants in our original codebase and tensor2tensor. Llion also experimented with novel model variants, was responsible for our initial codebase, and efficient inference and visualizations. Lukasz and Aidan spent countless long days designing various parts of and implementing tensor2tensor, replacing our earlier codebase, greatly improving results and massively accelerating our research.

¹Work performed while at Google Brain.

²Work performed while at Google Research.

 1706.03762v7.pdf
PDF

Describe this paper to me for a beginner.

This paper, "**Attention Is All You Need**", introduces the **Transformer model**, which is a new way of processing sequences of data (like text) without using traditional RNNs (Recurrent Neural Networks) or CNNs (Convolutional Neural Networks).

Key Ideas:

1. Transformer Model:

- Based entirely on **Attention Mechanisms** (specifically **Self-Attention**) rather than recurrent or convolutional layers.
- Enables parallel processing of sequence data, making it much faster and more efficient to train.

2. Self-Attention Mechanism:

- Helps the model focus on different parts of a sequence when processing it.
- Uses **Scaled Dot-Product Attention** and **Multi-Head Attention** to enhance learning of complex relationships.

3. Encoder-Decoder Architecture:

- Both encoder and decoder stacks are made of layers using **self-attention and feed-forward neural networks**.
- No recurrent layers, making training faster.

4. Positional Encoding:

- Adds information about the position of words in sequences since the model doesn't inherently process data in order.

5. Performance:

- Achieves state-of-the-art results on **translation tasks** (English-to-German and English-to-French).
- Trains much faster than previous models using fewer resources.

6. Applications:

- Besides translation, it generalizes well to other tasks like **parsing sentences**.

This paper is a **foundational work** in AI and NLP, introducing the Transformer model, which is now the basis of powerful models like **GPT-4 and BERT**.

Excellent, can you explain the fig 1 ?

Yes! **Figure 1** in the paper illustrates the **Transformer model architecture** which is divided into two parts: **Encoder Stack (Left)** and **Decoder Stack (Right)**.

Explanation of Figure 1

1. Encoder Stack (Left Part):

- The encoder is composed of **6 identical layers**, each having:
 - Multi-Head Self-Attention Layer:** This layer allows the model to look at all words in the input sentence at once, focusing on different parts of the sentence using multiple attention heads.
 - Feed-Forward Neural Network (FFN):** A simple neural network applied to each position separately, consisting of two linear transformations with a ReLU activation in between.
 - Residual Connections & Layer Normalization:** Each sub-layer (attention and FFN) has a shortcut connection and is followed by layer normalization to stabilize training.

2. Decoder Stack (Right Part):

- The decoder is also composed of **6 identical layers**, each having:
 - Masked Multi-Head Self-Attention Layer:** Similar to the encoder's self-attention, but modified so that it can only see past tokens, not future ones, ensuring the autoregressive property.
 - Encoder-Decoder Attention Layer:** This layer allows the decoder to focus on the relevant parts of the encoder's output. It helps the decoder make predictions based on the entire input sequence.
 - Feed-Forward Neural Network (FFN):** Same as in the encoder.
 - Residual Connections & Layer Normalization:** Similar as in the encoder.

3. Positional Encoding:

- Since the model doesn't have a sense of order, positional encoding is **added to the input embeddings** to provide information about the positions of tokens in a sequence.

4. Output Generation:

- The decoder generates output tokens **one at a time** using the output of the encoder, past decoder outputs, and attention mechanisms.

Would you like me to **break down the mathematical details of how each layer works** and how the information flows through this architecture? 😊

ChatGPT 4o
Share

In a nutshell ?

Sure!

Figure 1 (Transformer Architecture) in a Nutshell:

- Encoder (Left):** 6 identical layers, each with:
 - Self-Attention Layer:** Looks at all input words simultaneously and assigns attention weights to each word.
 - Feed-Forward Layer (FFN):** Processes each position separately with a simple neural network.
 - Residual Connections & Normalization:** Helps stabilize training.
- Decoder (Right):** 6 identical layers, each with:
 - Masked Self-Attention Layer:** Looks only at previous words (not future ones) to generate outputs step-by-step.
 - Encoder-Decoder Attention Layer:** Focuses on relevant parts of the encoder's output to make predictions.
 - Feed-Forward Layer & Normalization:** Similar to the encoder.
- Positional Encoding:** Adds position information to inputs since attention alone doesn't track word order.
- Output Generation:** Decoder produces one token at a time, using the previous tokens and attention from the encoder.

The model uses **attention mechanisms instead of recurrence or convolution**, making training faster and allowing parallelization. Want me to explain the Attention part (Scaled Dot-Product and Multi-Head Attention) in a nutshell next?

👍 🗨️ 🔄 🏠

create the python code for the Encoder (use canvas mode)

Transformer Encoder

Answer in chat instead >

I've created the **Transformer Encoder** code in the canvas. You can view and modify it as needed. Want me to proceed with the **Decoder** part? 😊



Ask anything



Search

Deep research



```

1 import torch
2 import torch.nn as nn
3 import torch.nn.functional as F
4
5 class MultiHeadAttention(nn.Module):
6     def __init__(self, d_model, num_heads):
7         super(MultiHeadAttention, self).__init__()
8         self.num_heads = num_heads
9         self.d_model = d_model
10        self.head_dim = d_model // num_heads
11
12        assert self.head_dim * num_heads == d_model, "d_model must be divisible by num_heads"
13
14        self.q_linear = nn.Linear(d_model, d_model)
15        self.k_linear = nn.Linear(d_model, d_model)
16        self.v_linear = nn.Linear(d_model, d_model)
17        self.out = nn.Linear(d_model, d_model)
18
19    def forward(self, q, k, v, mask=None):
20        batch_size = q.size(0)
21
22        # Linear projection and split into heads
23        q = self.q_linear(q).view(batch_size, -1, self.num_heads, self.head_dim).transpose(1, 2)
24        k = self.k_linear(k).view(batch_size, -1, self.num_heads, self.head_dim).transpose(1, 2)
25        v = self.v_linear(v).view(batch_size, -1, self.num_heads, self.head_dim).transpose(1, 2)
26
27        # Scaled Dot-Product Attention
28        scores = torch.matmul(q, k.transpose(-2, -1)) / (self.head_dim ** 0.5)
29        if mask is not None:
30            scores = scores.masked_fill(mask == 0, float('-inf'))
31        attention_weights = F.softmax(scores, dim=-1)
32
33        # Attention output
34        output = torch.matmul(attention_weights, v)
35
36        # Concatenate heads
37        output = output.transpose(1, 2).contiguous().view(batch_size, -1, self.d_model)
38        return self.out(output)
39
40
41 class FeedForward(nn.Module):
42     def __init__(self, d_model, d_ff):
43         super(FeedForward, self).__init__()
44         self.linear1 = nn.Linear(d_model, d_ff)
45         self.linear2 = nn.Linear(d_ff, d_model)
46
47     def forward(self, x):
48         return self.linear2(F.relu(self.linear1(x)))
49
50
51 class EncoderLayer(nn.Module):
52     def __init__(self, d_model, num_heads, d_ff, dropout=0.1):
53         super(EncoderLayer, self).__init__()
54         self.attention = MultiHeadAttention(d_model, num_heads)
55         self.feed_forward = FeedForward(d_model, d_ff)
56         self.norm1 = nn.LayerNorm(d_model)
57         self.norm2 = nn.LayerNorm(d_model)
58         self.dropout = nn.Dropout(dropout)
59
60     def forward(self, x, mask=None):
61         # Multi-Head Attention
62         attn_output = self.attention(x, x, x, mask)
63         x = self.norm1(x + self.dropout(attn_output))
64
65         # Feed Forward
66         ff_output = self.feed_forward(x)
67         x = self.norm2(x + self.dropout(ff_output))
68
69         return x
70

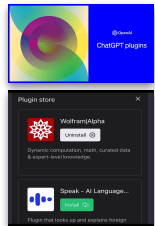
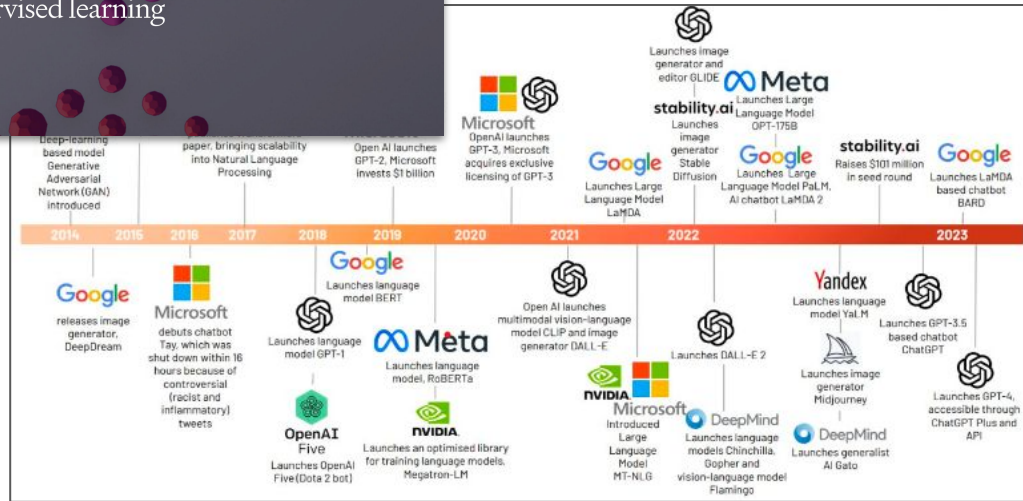
```

From GPT-1 ... June 11, 2018 !

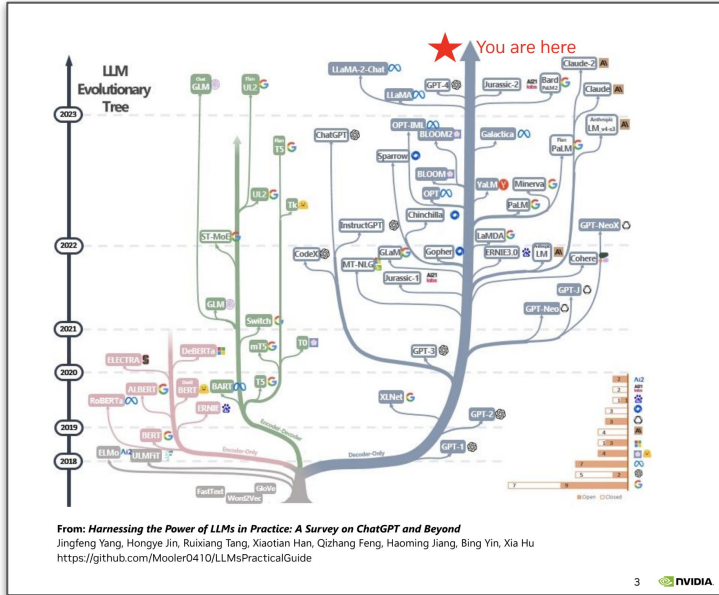
The current breakthrough is the culmination of a decade of development (and setbacks)



June 11, 2018



...to Sora



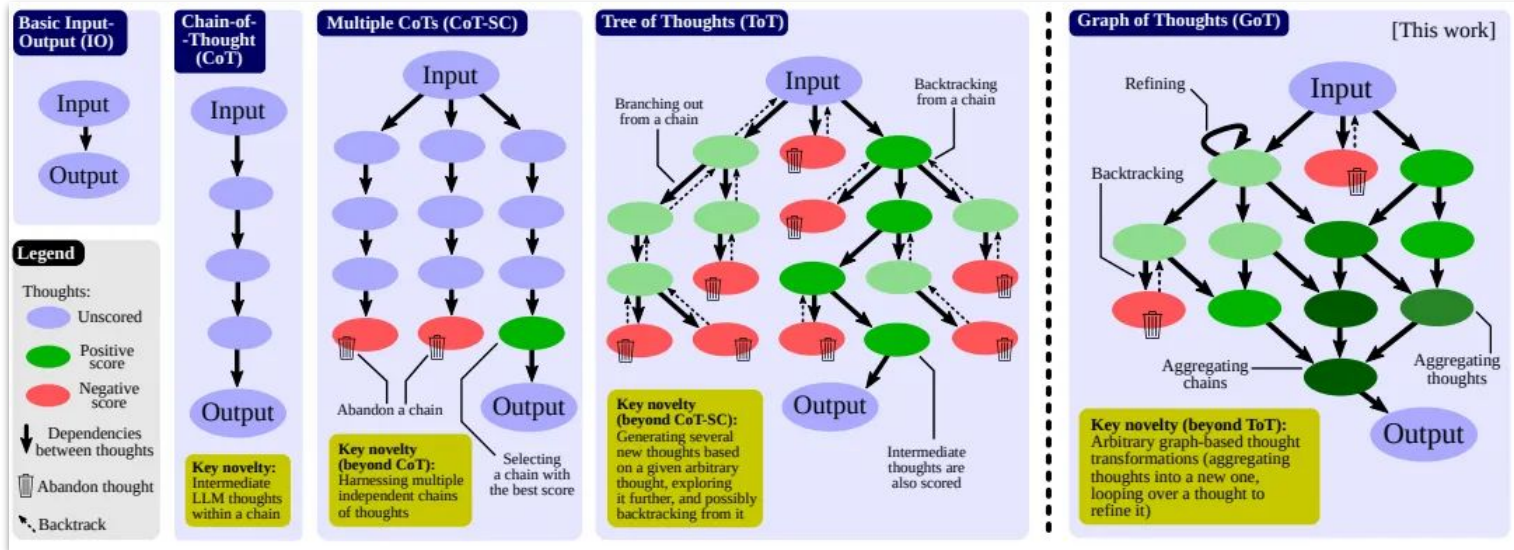
Creating video from text

Sora is an AI model that can create realistic and imaginative scenes from text instructions.

Read technical report

<https://openai.com/sora>

From Prompts to Graphs of Thoughts



Graph of Thoughts: Solving Elaborate Problems with Large Language Models

Maciej Besta^{1*}, Nils Blach^{1*}, Ales Kubicek¹, Robert Gerstenberger¹,
Lukas Gianinazzi¹, Joanna Gajda², Tomasz Lehmann², Michał Podstawski³,
Hubert Niewiadomski², Piotr Nyczyk², Torsten Hoeffler¹

¹ETH Zurich, ²Cledar, ³Warsaw University of Technology
bestam@inf.ethz.ch, nils.blach@inf.ethz.ch, htor@inf.ethz.ch



Peux-tu me créer une application à déployer sur mon Mac, elle doit permettre de capturer ce qui se passe sur l'écran mais aussi de bouger la souris et contrôler le clavier. Je voudrais pouvoir capturer les écrans régulièrement pour automatiser certaines tâches sur mon Mac en étant connecté à Ollama pour faire de l'interprétation visuelle.



Thought for 23 seconds

Bonjour,

Je peux certainement vous aider à créer une application pour votre Mac qui permet de capturer ce qui se passe sur l'écran, de contrôler la souris et le clavier, et de capturer les écrans régulièrement pour automatiser certaines tâches en étant connecté à Ollama pour l'interprétation visuelle.

Voici un guide pour vous aider à réaliser ce projet :

1. Choisir le langage et les outils de développement

- **Swift avec Xcode** : Recommandé pour le développement d'applications macOS natives.
- **Python avec PyObjC** : Permet d'interagir avec les API macOS si vous préférez Python.

2. Capturer l'écran

Utilisez l'API **Core Graphics** pour capturer l'écran.

Exemple en Swift :

swift

Copy code

```
import Cocoa
import CoreGraphics
```



Message ChatGPT



Thought for 23 seconds ^

Mapping out the solution
Translating the need to a French application, I mouse and keyboard control, automation, and

Breaking down the request
I'm outlining the user's needs: an application f automates tasks, and connects with Ollama fo

Tool for automating tasks

Mapping out guidelines
I'm examining policy guidelines to ensure com respect for others' autonomy are emphasized, disallowed content.

Charting the course
To create a Mac app that captures the screen, with Ollama, I suggest using Swift with Cocoa for scripting.



From Prompts to Skills

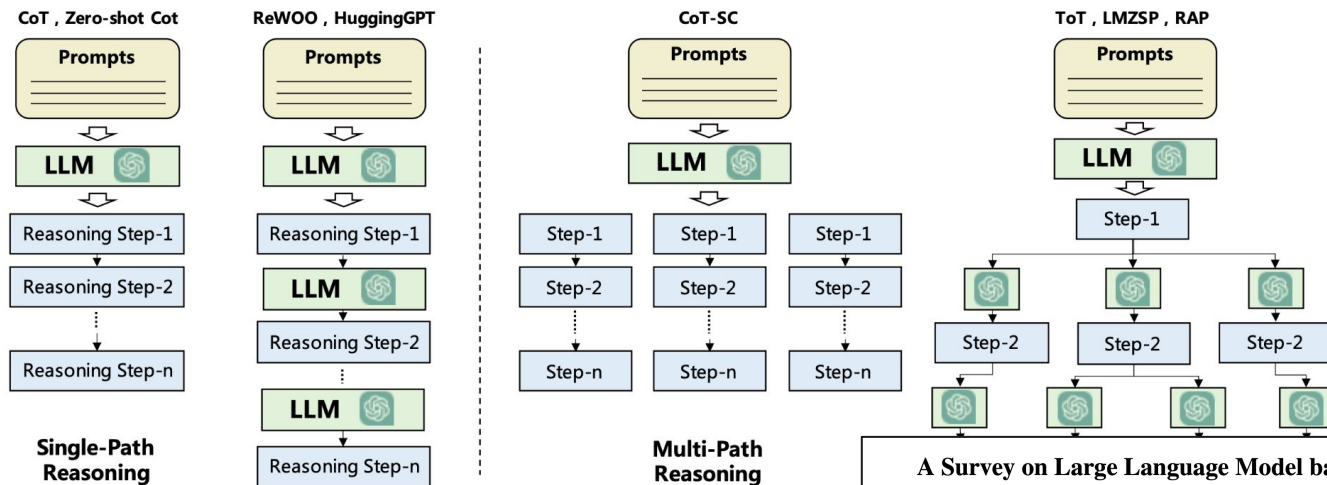


Fig. 3 Comparison between the strategies of single-path and multi-path reasoning

A Survey on Large Language Model based Autonomous Agents

Lei Wang¹, Chen Ma^{*1}, Xueyang Feng^{*1}, Zeyu Zhang¹, Hao Yang¹, Jingsen Zhang¹, Zhi-Yuan Chen¹, Jiakai Tang¹, Xu Chen(✉)¹, Yankai Lin(✉)¹, Wayne Xin Zhao¹, Zhewei Wei¹, Ji-Rong Wen¹

¹ Gaoling School of Artificial Intelligence, Renmin University of China, Beijing, 100872, China

4 Apr 2024

From Skills to Agents (Agentic Workflows)

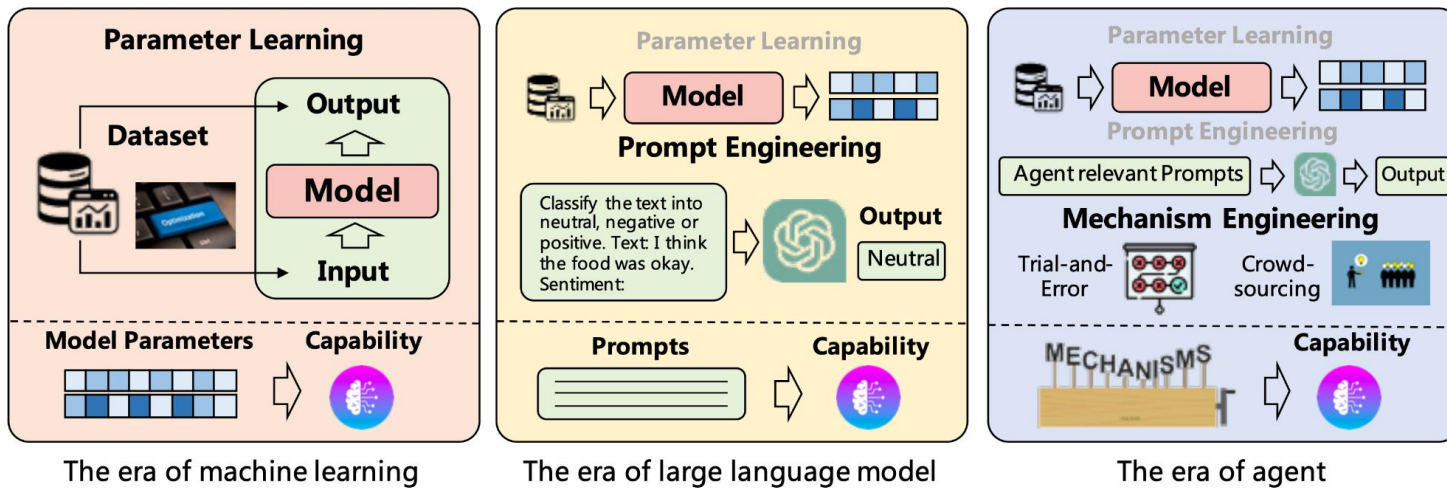


Fig. 4 Illustration of transitions in strategies for acquiring model capabilities.

A Survey on Large Language Model based Autonomous Agents

Lei Wang¹, Chen Ma^{1*}, Xueyang Feng¹, Zeyu Zhang¹, Hao Yang¹, Jingsen Zhang¹, Zhi-Yuan Chen¹, Jiakai Tang¹, Xu Chen^(S), Yankai Lin^(S), Wayne Xin Zhao¹, Zhewei Wei¹, Ji-Rong Wen¹

¹ Gaoling School of Artificial Intelligence, Renmin University of China, Beijing, 100872, China

4 Apr 2024

<https://arxiv.org/pdf/2308.11432>

From Skills to Agents (Agentic Workflows)

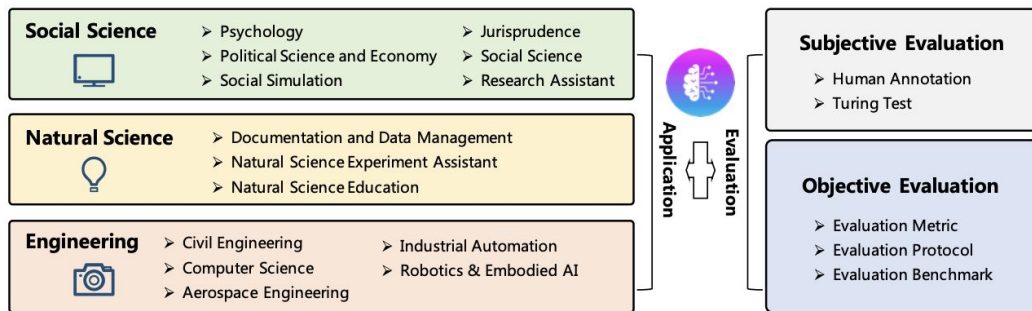


Fig. 5 The applications (left) and evaluation strategies (right) of LLM-based agents.

July 2024

```

Ask a question (type 'exit' to quit): what is the date of birth of the trainer of the winner of euro 2024?
1. You asked: what is the date of birth of the trainer of the winner of euro 2024?
Creating the plan...

[{'ID': 'P1',
  'description': 'Determine the winner of Euro 2024.',
  'keyword': 'Winner of Euro 2024',
  'type': 'Knowledge'},
 {'ID': 'P2',
  'description': 'Find the trainer of the team that won Euro 2024.',
  'keyword': 'Trainer of (P1)',
  'type': 'Knowledge'},
 {'ID': 'P3',
  'description': 'Search for the date of birth of the trainer of the Euro 2024 '
  'winner.',
  'keyword': 'Date of birth of (P2)',
  'type': 'Knowledge'},
 {'Final': 'P3', 'ID': 'R'}]

2. Grounding and Execution...

Winner of Euro 2024: Spain
Trainer of Spain - Winner of Euro 2024: Luis de la Fuente
Date of birth of Luis de la Fuente - Trainer of Spain - Winner of Euro 2024: 21 June 1961

3. Result:
The plan consists of three steps aimed at identifying the trainer associated with Spain, who won Euro 2024. It first locates Spain as the country's potential winner (P1). Next, it finds Luis de la Fuente as the Spanish coach for this victory (P2), and finally provides his date of birth, which is June 21, 1961 (P3), directly answering the question regarding the trainer's date of birth.

===
Reasoning:
[{'ID': 'P1', 'result': 'Spain', 'search': 'Winner of Euro 2024'},
 {'ID': 'P2',
  'result': 'Luis de la Fuente',
  'search': 'Trainer of Spain - Winner of Euro 2024'},
 {'ID': 'P3',
  'result': '21 June 1961',
  'search': 'Date of birth of Luis de la Fuente - Trainer of Spain - Winner of '
  'Euro 2024'}]

Ask a question (type 'exit' to quit):

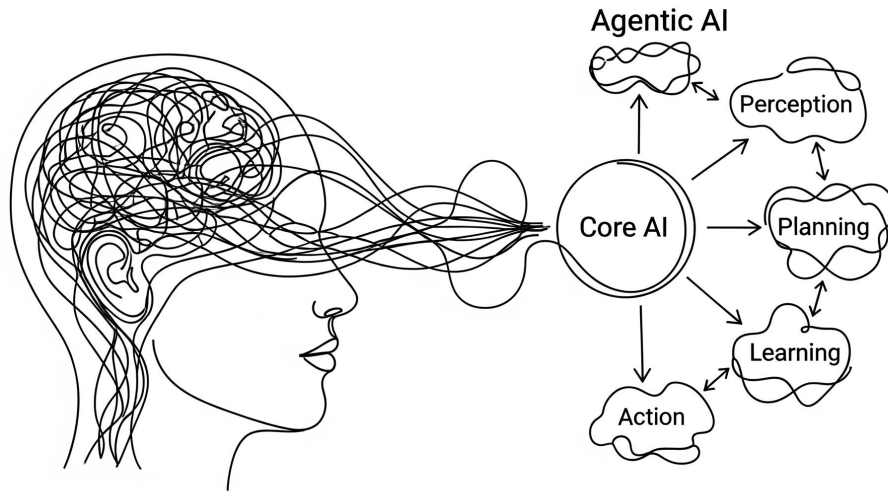
```

A Survey on Large Language Model based Autonomous Agents

Lei Wang¹, Chen Ma¹, Xueyang Feng¹, Zeyu Zhang¹, Hao Yang¹, Jingsen Zhang¹, Zhi-Yuan Chen¹, Jiakai Tang¹, Xu Chen^(✉), Yankai Lin^(✉), Wayne Xin Zhao¹, Zhewei Wei¹, Ji-Rong Wen¹

¹ Gaoling School of Artificial Intelligence, Renmin University of China, Beijing, 100872, China

Agentic AI Design Patterns



- **Reflection and reasoning** are core to complex tasks.
- **Tool use and functions** expand the agents capabilities.
- **Planning** involves breaking down large tasks into smaller steps.
- **Multi-agent** collaboration enables sophisticated workflows.
- **Memory** provides persistence and crucial context to agents.

From Agents to vibe ... Coding > Browsing > Working !

OpenAI Atlas - Oct 2025



<https://www.anthropic.com/news/3-5-models-and-computer-use>

A screenshot of a browser window displaying a price comparison for Apple AirPods Max (USB-C). The browser's address bar shows 'https://www.apple.com/airpods-max/'. The page content includes a table with columns for 'Retailer', 'Price', and 'Notes'. The table lists Amazon (\$429.99), Best Buy (\$449.99), Costco (\$449.99), and Target (\$549.00). A recommendation is provided at the bottom: 'Recommendation: Amazon currently offers the best deal at \$429.99 for the Midnight color. Best Buy and Costco are also offering competitive sale prices at \$449.99.'

Retailer	Price	Notes
Amazon	\$429.99	Lowest price found (Midnight color)
Best Buy	\$449.99	On sale (Regularly \$549.99)
Costco	\$449.99	Member price
Target	\$549.00	Standard retail price

Recommendation: Amazon currently offers the best deal at \$429.99 for the Midnight color. Best Buy and Costco are also offering competitive sale prices at \$449.99.

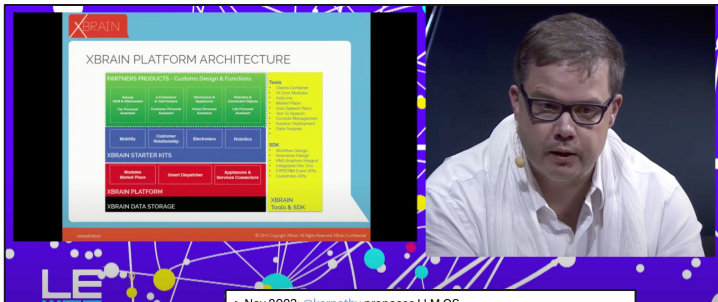
I have completed the price comparison for the **Apple AirPods Max (USB-C)** across Amazon, Target, Best Buy, and Costco.

Price Comparison Summary

Retailer	Price	Notes
Amazon	\$429.99	Lowest price found (Midnight color)
Best Buy	\$449.99	On sale (Regularly \$549.99)
Costco	\$449.99	Member price
Target	\$549.00	Standard retail price

Recommendation: Amazon currently offers the best deal at \$429.99 for the Midnight color. Best Buy and Costco are also offering competitive sale prices at \$449.99.

To System of Intelligence



OS-COPILOT: TOWARDS GENERALIST COMPUTER AGENTS WITH SELF-IMPROVEMENT

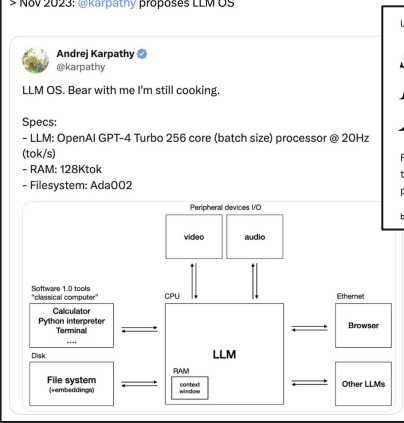
Zhiyong Wu[◇]; Chengheng Han^{▲*}; Zichen Ding[▲]; Zhenmin Weng[▲],
 Zhounianzhan Liu[◇]; Shunyu Yao[◇]; Tao Yu[▲]; Lingpeng Kong[▲]
[◇]Shanghai AI Laboratory [▲]East China Normal University
[◇]Princeton University [▲]The University of Hong Kong
 wuzhiyong@pjlab.org.cn
<https://os-copilot.github.io/>

> Nov 2023: @karpathy proposes LLM OS

Gregory Brumby - The Future Of The Mind - LeWeb14

Dec 10, 2014

Dec 10, 2014

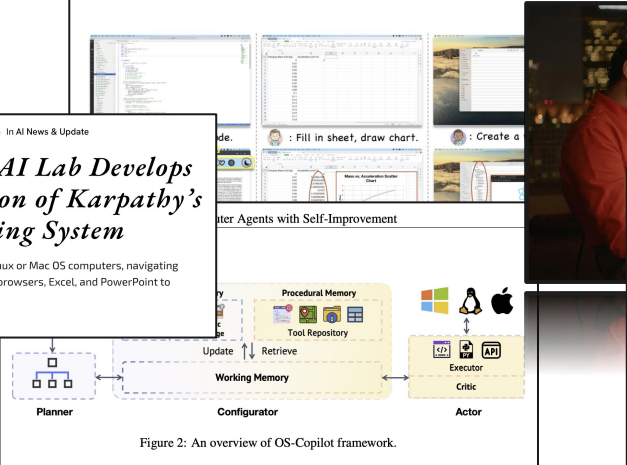


Last updated February 15, 2024 In AI News & Update

Shanghai AI Lab Develops First Version of Karpathy's AI Operating System

FRIDAY takes charge of Linux or Mac OS computers, navigating through applications like browsers, Excel, and PowerPoint to perform tasks.

by Siddharth Jindal



OpenClaw
 THE AI THAT ACTUALLY DOES THINGS.

Clears your inbox, sends emails, manages your calendar, checks you in for flights, AI from WhatsApp, Telegram, or any chat app you already use.

Introducing OpenClaw

What People Say

"I've been saying for like six months that even if LLMs suddenly stopped improving, we could start trying to discover new transformative..."

"Why OpenClaw is nuts: your context and all live on YOUR computer, not a weird garden-..."

"...a bubble, it will never end!"

"Feels like we're living in the future!"

"OpenClaw is a game changer: custom experiences in high, out of the ground!"

Path to Hyperproductivity?

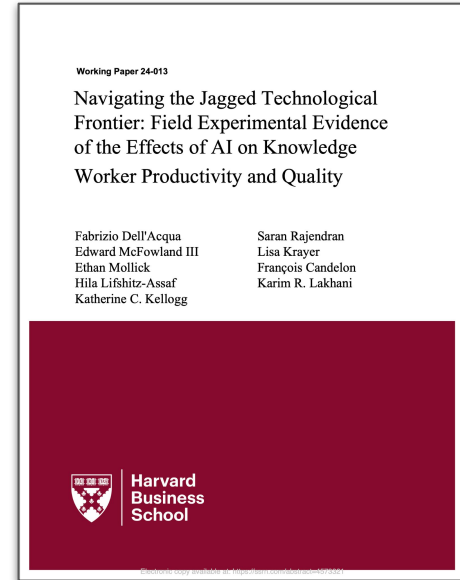
Hyperproductivity can be defined as:

A state where the use of AI tools significantly improves (> x10):

- Speed
- Quality
- Volume

... of tasks performed in a professional context, leading to measurable improvements in performance indicators.

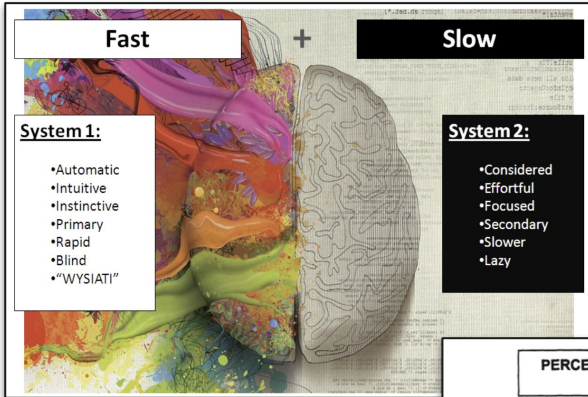
Hyperproductivity (HP) is defined as a state of greatly increased productivity through AI technologies, leading to accelerated economic growth and enhanced individual capabilities for learning and production.



https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4573321

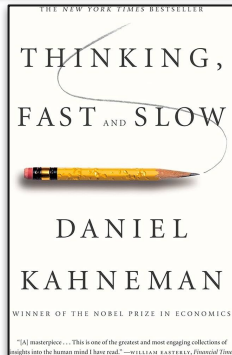
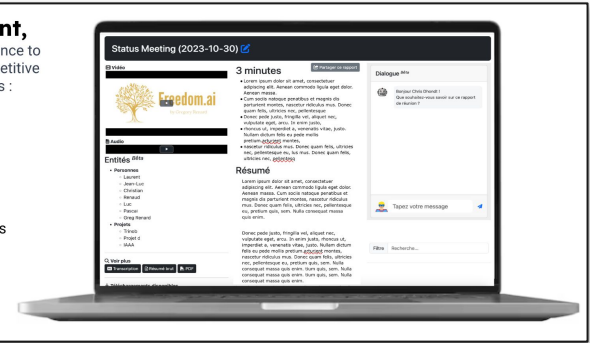
**Save time, money, and offer well-being!
It's a revolutionary shift in civilization.**

Redefining the Future of Work with AI



AI Meeting Assistant,
a tool that uses artificial intelligence to automate administrative and repetitive tasks, improving aspects such as :

- Meeting audio recording
- Transcription
- Meeting Summarization
- Post-Meeting Action Items
- Search with Chatbot
- Share meeting minutes



	PERCEPTION	INTUITION SYSTEM 1	REASONING SYSTEM 2
PROCESS		Fast Parallel Automatic Effortless Associative Slow-learning Emotional	Slow Serial Controlled Effortful Rule-governed Flexible Neutral
CONTENT	Percepts Current stimulation Stimulus-bound	Conceptual representations Past, Present and Future Can be evoked by language	





Let's do some math...

Tasks	Human Min	Copilot Min	Saving	TF Effect	Qual. Product.	T*Q	PI (1=Current)	TF Factor
Custom email	30	10	20.00	66.67%	3	200%	2	400%
Arxiv Paper Reading	60	10	50.00	83.33%	3	250%	3	750%
Coding, Testing, Doc Writing	240	60	180.00	75.00%	2	150%	3	450%
Meeting Reports	30	3	27.00	90.00%	3	270%	2	540%
Continuous Learning	60	15	45.00	75.00%	5	375%	10	3750%
Social Network	60	15	45.00	75.00%	10	750%	10	7500%
	480	113	367.00	76.46%	4.3	331.32%	5.0	1656.60%
Hours in a day	8	1.88	6.12					
TF : Turing Transformation	Time							
PI : Professional Impact	Quality							
	Wellness							



8 hours (1 day of work) :

- Time saved: ~ 6+ hours / day (76+%)
- Improvement in quality: ~ x4+
- Professional impact: x5

$$VM^{AI} = CC^{AI} + CV^{AI} + PV^{AI}$$

Redéfinir le Travail à l'Ère de l'Intelligence Artificielle:
Perspectives Historiques et Impacts du Capital Technologique

Good news: AI will not replace you.
Bad News: A person using AI will.

One thing is clear: **Talent will matter even more.**

Gregory Renard - 2024

<https://www.linkedin.com/in/gregoryrenard/>
<https://x.com/Redo>

Redefining Work in the Age of Artificial Intelligence - v3

<https://notebooklm.google.com/notebook/e608a36d-1b9e-49a3-a7c4-fae49f4032c3/audio>

Podcast en anglais généré avec Google - Notebook LM à partir de cet essai.

Oct 2024 © Gregory Renard

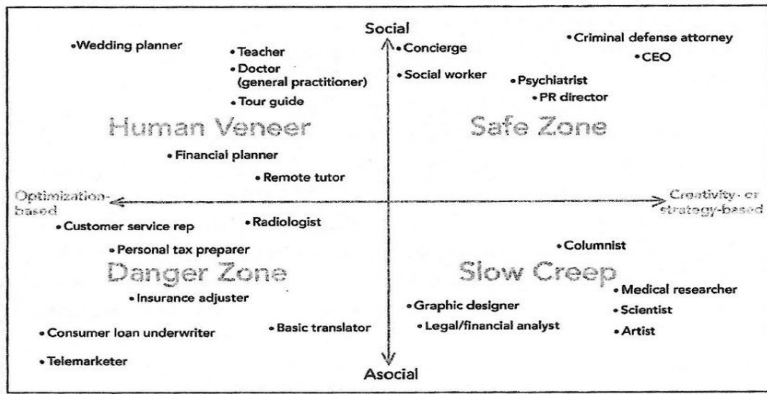
1

	Valeur Marchandise (Produit ou Service)				Capital Technologique (Paramètres AI)					
	Cap Constant	Cap Variable	Add value	Price	Ratio Vitesse Prod	Coef Prod	Accuracy %	Loss Model	Loss Pipeline	Coef Quality
Avant IA	1.00	1.00	1.00	3.00	1.00	1.00	1.00	0.00	0.00	0.00
IA Gen 1	1.00	0.73	1.27	3.00	3.00	4.80	0.80	0.30	0.40	0.34
IA Gen 2	1.14	0.56	1.30	3.00	6.00	12.57	0.85	0.25	0.25	0.48
IA Gen 3	1.25	0.44	1.30	3.00	12.00	29.45	0.80	0.20	0.20	0.58
IA Gen 4	1.37	0.35	1.29	3.00	24.00	67.34	0.92	0.15	0.15	0.66
IA Gen 5	1.51	0.24	1.26	3.00	48.00	155.36	0.95	0.10	0.10	0.77
IA Gen 6	1.88	0.12	1.20	3.00	96.00	356.73	0.98	0.05	0.05	0.88
Redistribution de la valeur					Progression Cross-Generations CT					
	Valeur Marchandise (Produit ou Service)				Valeur Marchandise (Produit ou Service)					
	Cap Constant	Cap Variable	Add value	Price	Cap Constant	Cap Variable	Add value	Price		
Avant IA	33.33%	33.33%	33.33%	100.00%	0.00%	0.00%	0.00%	0.00%		
IA Gen 1	33.33%	24.42%	42.25%	100.00%	0.00%	-26.74%	26.74%	0.00%		
IA Gen 2	38.07%	18.66%	43.27%	100.00%	14.21%	-44.61%	29.80%	0.00%		
IA Gen 3	41.80%	14.79%	43.42%	100.00%	25.39%	-55.64%	30.25%	0.00%		
IA Gen 4	45.50%	11.51%	42.99%	100.00%	36.51%	-65.48%	28.97%	0.00%		
IA Gen 5	50.27%	7.89%	41.88%	100.00%	50.29%	-79.42%	25.83%	0.00%		
IA Gen 6	56.95%	3.93%	40.91%	100.00%	68.18%	-89.40%	20.04%	0.00%		

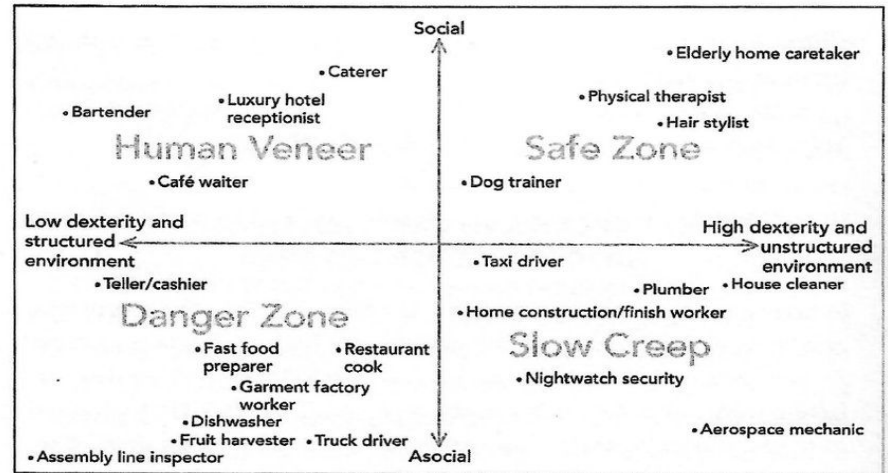
Redefining Work in the Age of Artificial Intelligence

Historical Perspectives and the Impact of Technological Capital

- **Context:** Work, a cornerstone of our collective evolution, is being redefined by AI and modern technologies.
- **Technological Capital:** The fusion of human labor and capital characteristics. This new form of capital reshapes value creation and production structures.
- **Two Scenarios :**
 - **Abundance:** Productivity gains, cost reduction, improved quality of life.
 - **Alienation:** Worker marginalization, economic disparities.
 -
- **Objectives:** To reinvent work with AI by balancing productivity, human dignity, and social justice.



Risk of Replacement: Cognitive Labor



Risk of Replacement: Physical Labor



Good News: AI isn't going to replace you!

Bad News: A person who uses AI will!

One thing is certain: **Talent will matter even more**

Responsibility and Social Ethics

THE HOLBERTON-TURING OATH

As a member of the data science and artificial intelligence profession, I solemnly pledge to dedicate my life to the service of Humanity :

Humanity & Ethics :

- I will maintain the utmost respect for human life;
- I will not permit considerations of age, disease or disability, creed, ethnic origin, gender, nationality, political affiliation, religious beliefs, race, sexual orientation, social standing or any other factor to intervene in duty;
- I will not use my knowledge to violate human rights and civil liberties, even under threat;

Data Science, Art of Artificial Intelligence, Privacy & Personal Data :

- I will respect the hard-won scientific gains of those scientists and engineers in whose steps I walk, and gladly share such knowledge as is mine with those who are to follow;
- I will remember that there is an art to Artificial Intelligence as well as science, and that human concerns outweigh technological ones;
- I will respect the privacy of humans for their personal data are not disclosed to Artificial Intelligence systems so that the world may know;
- I will remember that I am not encountering dry data, mere zeros and ones, but human beings, whose interactions with my Artificial Intelligence software may affect the person's freedom, family, or economic stability;
- I will respect the secrets that are confided in me;

Daily work & Etiquette :

- I will practice my profession with conscience and dignity;
- I will foster the honor and noble traditions of the data science and artificial intelligence profession;
- I will give to my teachers, colleagues, and students the respect and gratitude that is their due;
- I will share my knowledge for the benefit of the people and the advancement of Data-Science and Artificial Intelligence;
- I will consider the impact of my work on fairness both in perpetuating historical biases, which is caused by the blind extrapolation from past data to future predictions, and in creating new conditions that increase economic or other inequality;
- I make these promises to create Artificial Intelligence, first, to collaborate with people for the greater good, rather than usurp the human role and supplant them;

I make these promises solemnly, freely, and upon my honor.

Contact us to submit your proposals: suggestion@holbertonturingoath.org

LE SERMENT HOLBERTON-TURING

Au moment d'être admis(e) à exercer l'Intelligence Artificielle sous toutes ses formes présentes et futures, je promets et je jure d'être fidèle aux lois de l'honneur et de la probité.

Humanité et Éthique :

- Je préserverai l'humain et je m'attacherai à rétablir, à préserver ou à promouvoir l'équité et l'éthique dans tous ses éléments, physiques et mentaux, individuels et sociaux;
- Je respecterai toutes les personnes, leur autonomie et leur volonté, sans aucune discrimination sur l'âge, la condition physique, les affiliations politiques, les croyances religieuses, les origines sociales, les origines ethniques ou encore l'orientation sexuelle;
- Je ne tromperai jamais leur confiance et n'exploiterai pas le pouvoir hérité des circonstances pour forcer les consciences;

Data Science, Art de l'Intelligence Artificielle, Vie Privée & Data Personnelle :

- Je respecterai les avancées et progrès scientifiques durement acquis par les scientifiques et les ingénieurs qui m'ont précédé et partagerai les connaissances que je possède avec ceux qui me suivront;
- Je me souviendrai qu'il y a un art à l'Intelligence Artificielle, aussi bien que pour la Science, et que les préoccupations humaines l'emportent sur les préoccupations technologiques;
- Je respecterai la vie privée des utilisateurs et je veillerai à ce que leurs données personnelles ne soient pas divulguées;
- Je me souviendrai que je ne manipule pas que des données, des zéros et uns, mais des êtres humains dont les interactions avec mon logiciel d'intelligence artificielle peuvent affecter la liberté, la famille ainsi que la stabilité économique.
- Je respecterai les secrets qui me sont confiés;

Travail Quotidien & Étiquette :

- J'exercerai ma profession avec conscience et dignité;
- Je respecterai et transmettrai l'honneur et les traditions nobles de la profession de la science des données et d'intelligence artificielle;
- Je donnerai à mes professeurs, collègues et étudiants le respect et la gratitude qui leur sont dus;
- Je partagerai mes connaissances pour le bénéfice du plus grand nombre et l'avancement de la Science des Données et de l'Intelligence Artificielle;
- J'examinerai l'impact de mon travail sur l'équité à la fois dans la perpétuation des biais historiques, qui peuvent être causés par l'extrapolation aveugle des données passées vers les prédictions futures, et dans la création de nouvelles conditions qui augmentent l'inégalité économique ou toute autre forme d'inégalité.
- Je promets de créer des solutions logicielles intégrant de l'Intelligence Artificielle, privilégiant la collaboration avec les humains pour le plus grand bien, plutôt que d'usurper le rôle de l'humain et de le supplanter.

Je fais ces promesses solennellement, librement et sur mon honneur.

Contactez-nous pour soumettre vos propositions d'adaptations: suggestion@holbertonturingoath.org

everyone.AI co-launched the **IRAISE Alliance** "International Research-driven Alliance for AI Serving Every child", with the **Paris Peace Forum**, during the **AI Action Summit** in February 2025 in Paris

[Summit](#) in February 2025 in Paris



Mission Research Our Actions Newsroom About

Donate



Shaping beneficial AI for children today,



<https://everyone.ai>



BENEFICIAL AI FOR CHILDREN COALITION



GOVERNMENTS & INSTITUTIONS



RESEARCHERS

- Pr. Stuart Russell**, Professor of Computer Science, Cognitive Science, and Computational Precision Health, UC Berkeley, UCSF (US)
- Pr. Sonia Livingstone**, Professor of Social Psychology, Department of Media and Communications, London School of Economics
- Dr. Luc Julia**, Chief Scientific Officer Renault Group
- Gregory Renard**, Head Applied ML, Board President of everyone.AI
- Dr. Mathilde Cerioli**, Chief Scientific Officer everyone.AI
- David Harris**, Chancellor's Public Scholar, UC Berkeley
- Pr. Laurence Devillers**, Researcher at CRNS, President of the Blaise Pascal Foundation, Author, Sorbonne
- Pr. Florence Gsell**, Visiting Professor Private Law, Stanford Cyber Policy Center
- Dr. Maxime Derian**, Research Associate at the C²DH - Digital Anthropology & Environmental History, Université du Luxembourg

COMPANIES & INVESTORS



NGOS & CIVIL SOCIETY



Global Organizations supporting the work of the coalition



Stay Vigilant!

 **Gregory Renard** (He/Him) · You
Applied AI · 25 Years+ of NLP, NLU & SDS · FDL SETI NASA · TEDx...
5d · Edited · 🌐

Remember the new AI world we're living now: Always stay vigilant and double-check any visual or textual information you come across on social media! 🙏

These pictures are fake and AI generated

Verify sources and ensure accuracy before sharing, we all play a role in preventing the spread of misinformation. 🌐🔍


[#StayVigilant](#) [#FactCheck](#) [#SocialMediaResponsibility](#) [#VerifySources](#)
[#Misinformation](#) [#TruthMatters](#) [#DigitalLiteracy](#)

 **Alvin Foo** · Following
Ventures Partner, Co-Founder, Advisors & Mentors | ex-Google | AI | B...
5d · 🌐


Didn't know they are best of friends 🤔

The truth is that they are not! These pictures were made us ...see more




 **TECHNICA** · 2d

AI platform allegedly bans journalist over fake Trump arrest images
Yesterday, about 50 AI-generated images imagining what former President Donald Trump's arrest would look like spread across ...




Firstpost · 2d

AI platform Midjourney bans journalist who created Trump's fake images of getting arrested
AI-generated images of Donald Trump getting arrested went viral on Twitter. The AI platform that created the images, ...



THE HILL · 2d · on MSN

Fake AI images of 'Trump arrest' hit internet
Fabricated images of former President Trump being arrested are circulating social media as the country prepares for his ...



Ars Technica · 3d

AI-faked images of Donald Trump's imagined arrest swirl o
In a tweet, Higgins confirmed that he used the impressively realistic AI e... couldn't immediately reach Higgins for comment on the images ...

TechSpot · 7d

Midjourney 5 improves almost every aspect of AI generate
The fear being that one could fairly easily create a fake image and pass... Midjourney V5 has dramatically improved quality. Graphic designer ...

 **Gregory Renard** (He/Him) · You
Applied AI · 25 Years+ of NLP, NLU & SDS · FDL SETI NASA · TEDx...
5d · Edited · 🌐

Remember the new AI world we're living now: Always stay vigilant and double-check any visual or textual information you come across on social media! 🙏

These pictures are fake and AI generated

Verify sources and ensure accuracy before sharing, we all play a role in preventing the spread of misinformation. 🌐🔍

[#StayVigilant](#) [#FactCheck](#) [#SocialMediaResponsibility](#) [#VerifySources](#)
[#Misinformation](#) [#TruthMatters](#) [#DigitalLiteracy](#)



THANK YOU!

<https://www.gregory-renard.com>
https://fr.wikipedia.org/wiki/Gregory_Renard

-
<https://x.com/Redo>
<https://www.linkedin.com/in/gregoryrenard/>



Faire une recherche en ligne car je souhaite participer à NeurIPS 2023 qui a lieu à la Nouvelle-Orléans. Merci de rechercher les vols pour partir de San Francisco vers la Nouvelle-Orléans pour participer à l'événement, ainsi qu'un hôtel et les frais d'inscription. Merci de faire le budget.



Finished browsing

NeurIPS 2023 will take place from December 10 to December 16 at the New Orleans Ernest N. Morial Convention Center¹. Here is a budget outline based on the information gathered

1. Conference Registration:

- Early Registration Fee (ends October 22, 2023): \$625 for regular attendees².

2. Flight:

- American Airlines: Flights range from \$267 (round trip)³.
- United Airlines: Flights are available from \$248 (round trip)⁴.
- Various platforms like Kayak and Skyscanner offer flights from \$46 and \$109 respectively (round trip)^{5 6}.

3. Hotel Accommodation (Per night):

- Expedia: Hotels such as Astor Crowne Plaza New Orleans French Quarter from \$149⁷.
- Orbitz: Bourbon Orleans Hotel at \$188⁸.
- Kayak: Offers hotels from \$61 per night⁹.
- Hotels.com: Options like Omni Royal Orleans in the French Quarter, prices not provided but can be checked on the website¹⁰.
- TripAdvisor: Various hotels ranging from \$112 to \$450¹¹.

For a thorough budgeting, you would need to select specific flight and hotel options based on your preferences. The total cost would be a sum of the registration fee, flight cost, and hotel accommodation for the duration of the conference.



Oct 2023



Donne-moi une estimation du budget global moyen.



Pour estimer un budget global moyen pour assister à NeurIPS 2023 à la Nouvelle-Orléans, nous pouvons calculer le coût moyen pour chaque catégorie (inscription, vol, et hébergement) et puis les additionner. Voici une estimation:

1. Frais d'inscription :

- Inscription anticipée : \$625¹.

2. Vol (aller-retour) :

- Le coût moyen basé sur les différentes options fournies est d'environ : $(\$267 + 248 + 46 + 109) / 4 \approx \168 .

3. Hébergement (par nuit) :

- Le coût moyen basé sur les différentes options fournies est d'environ : $(\$149 + 188 + 61 + (112 + 450) / 2) / 4 \approx \188 .

Pour un séjour de 7 nuits, le coût total de l'hébergement serait de $\$188 * 7 = \$1,316$.


En additionnant ces coûts, l'estimation globale du budget serait de : $\$625$ (inscription) + $\$168$ (vol) + $\$1,316$ (hébergement) = $\$2,109$.

Cette estimation donne une idée du budget nécessaire, bien qu'il soit important de noter que les prix des vols et des hôtels peuvent varier considérablement en fonction de divers facteurs tels que la date de réservation, la classe de vol, l'emplacement de l'hôtel, et d'autres préférences personnelles.





Computer use for automating operations

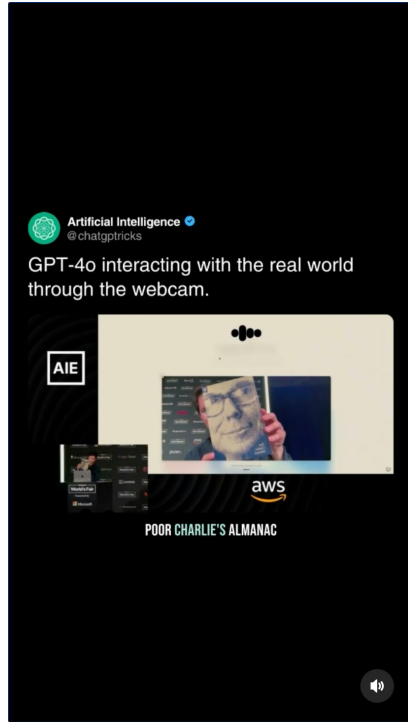
 Claude



Oct 2024



<https://www.anthropic.com/news/3-5-models-and-computer-use>



chatgptricks · Follow
Original audio



chatgptricks 12w
This is the future of AI-assistants!

Roman Huet, the Head of Developer Experience at OpenAI, showcased the capabilities of GPT-4o at the AI Engineer World's Fair 2024.

During the live demo, GPT-4o demonstrated its advanced ability to understand and process visual information via a webcam. The AI was able to read and comprehend text very quickly.

This demonstration underscores the potential of AI systems like GPT-4o to significantly enhance efficiency in areas that require rapid information processing.



55,624 likes

August 26

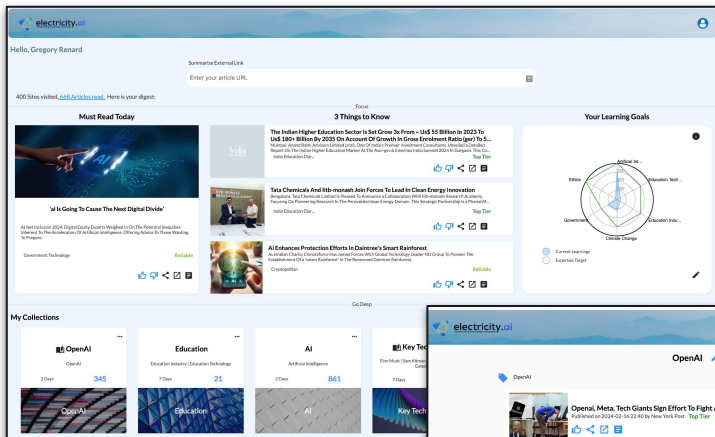


Add a comment...



ChatGPT Voice Advanced August 2024 : https://www.instagram.com/reel/C_JZL2hP5ou/?igsh=dTlieHo3MWFwejV1

Knowledge - Information Obesity !



electricity.ai

Hello, Gregory Renard

Semantic External Link

Enter your article URL

400 Sites visited - 655 Articles read. Here is your digest:

3 Things to Know

Your Learning Goals

Must Read Today

AI is Going To Cause The Next Digital Divide?

The Indian Higher Education Sector is Set to Grow by Over - USD \$3 Billion by 2023 To USD \$10+ Billion by 2030 On Account Of Growth In Gross Enrollment Ratio (GER) To 1...

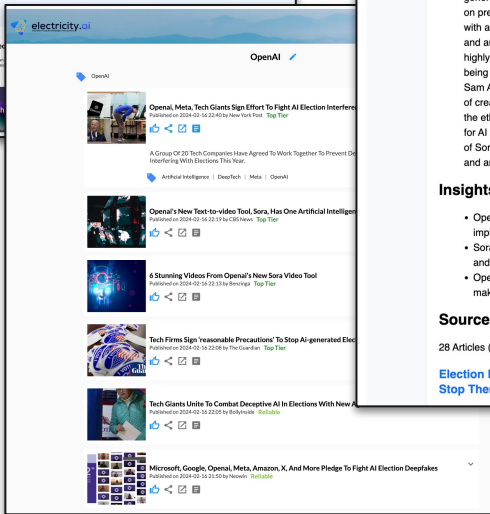
Tata Chemicals And Hilti-merck Join Forces To Lead In Clean Energy Innovation

AI Enhances Protection Efforts In Denmark's Smart Environment

My Collections

- OpenAI: 345
- Education: 21
- AI: 863
- Key Tech: 708

Productivity > (x50)
~30 min/day



electricity.ai

OpenAI

- OpenAI, Meta, Tech Giants Sign Effort To Fight AI Election Interference
- A Group Of 20 Tech Companies Have Agreed To Work Together To Prevent Or Interfere With Elections This Year
- OpenAI's New Text-to-video Tool, Sora, Has One Artificial Intelligence
- 6 Stunning Videos From OpenAI's New Sora Video Tool
- Tech Firms Sign 'reasonable Precautions' To Stop AI-generated Elec
- Tech Giants Unite To Combat Deceptive AI In Elections With New
- Microsoft, Google, OpenAI, Meta, Amazon, X, And More Pledge To Fight AI Election Deepfakes

[Electricity.ai] Collection Summary - OpenAI- Feb. 17, 2024

Electricity.ai Info

Collection Report | OpenAI Report

OpenAI has unveiled Sora, a text-to-video AI tool with potential implications for various industries. Sora's capabilities raise concerns about the spread of deepfake videos and misinformation. OpenAI is conducting safety checks and adversarial testing before making Sora publicly available. Major consumer-facing tech companies, including OpenAI, have joined a pact to combat AI-generated deceptive content during elections. The accord focuses on preventing the use of AI-generated deepfakes to deceive voters, with a focus on preventing the harmful effects of AI photos, videos, and audio. OpenAI's new generative AI tool, Sora, can create highly detailed videos based on text prompts. The tool is currently being tested by sharing text-to-video prompts with OpenAI's CEO, Sam Altman. The public can suggest prompts, leading to a variety of creative and humorous video outputs. Concerns arise regarding the ethical implications of using possibly copyrighted training data for AI models. OpenAI acknowledges the potential harmful impact of Sora and commits to engaging with policymakers, educators, and artists.

Insights

- OpenAI has unveiled Sora, a text-to-video AI tool with potential implications for various industries.
- Sora's capabilities raise concerns about the spread of deepfake videos and misinformation.
- OpenAI is conducting safety checks and adversarial testing before making Sora publicly available.

Sources

28 Articles (Summaries and Insights)

[Election Deepfakes Are Coming Even If Big Tech Pledges to Stop Them](#)

Gregory Renard (He/Him) - You

Applied AI Architect - EDL, SETI NASA 2022 AI Award - 25+ Yrs in NL

Get ready for the arrival of GPT-4, the new cutting-edge artificial intelligence language model that promises to take human-machine interaction to the next level!

In this article, the author **explains all about this innovative technology and how it will change the way we**

1,924,494 Impressions

+24,366% Past 365 days

Here are some of the m

- GPT-4's multimodal c
- The potential applica
- The ethical concerns
- responsible developm

The author concludes w


emphasizing the import

development of this tec

Article: https://lnkd.in/g/5_4XDDM

#GPT4 #ArtificialIntelligence #Multimodal #Ethics #FutureTech

Thank you for reading, and stay tuned for more exciting developments in the world of AI!



GPT-4 will arrive next week and will be multimodal

gearrice.com - 2 min read

Avery Lu and 459 others

24 comments - 64 reposts