



## Sponsors Gold







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Sponsors Silver





















# GDG Cloud Nantes

## Merci à nos sponsors <3

























lonestone







13/03 - Meetup avec | iAdvize









Hackathon GenAl du vendredi 31 Mai au dimanche 2 Juin



# SAVE THE DATE!

14/03 - International Women Day





27/02 - Laissez tomber vos Dockerfile, adoptez un buildpack!

## Schedule





2- Talk (1h30)



3- Enjoy ;)

-> 5 rue d'Alger

## **Native LLM function calling**

```
function: {
 parameters: (
   properties: {
     location: {
       type: "string",
     3,
      unit: { type: "string", enum: ["celsius", "fahrenheit"] },
   required: ["location"],
 },
```

#### Work around:

promptingfine tuning

## **Embedding models stability**

#### Google:

- sentence-t5 (August '21)
- PaLM: textembedding-gecko-001 (May '23)
- Gemini: embedding-001 (December '23)

#### OpenAl:

- text-embedding-ada-002 (December '22)
- text-embedding-3-large (January '24)

#### Cohere:

- cohere-embed-multilingual-v2 (December '22)
- cohere-embed-multilingual-v3 (November '23)

Anthropic: not supported 🤯

#### Other:

- sentence-transformers/all-MiniLM-L6-v2 (August '21)

## **Embedding models stability**

Benchmark: <a href="https://huggingface.co/spaces/mteb/leaderboard">https://huggingface.co/spaces/mteb/leaderboard</a>

#### **Conclusion:**

- performance gain is marginal
- backfilling is costly
- new features in latest models: multimodal embeddings or moderation

```
# OpenAI's web crawler: GPT3.5, GPT4, ChatGPT
User-agent: GPTBot
# ChatGPT plugins
User-agent: ChatGPT-User
# Google's web crawler: Bard, VertexAI, Gemini
User-agent: Google-Extended
# Claude
User-agent: anthropic-ai
# Common Crawl
User-agent: CCBot
# Censorship area
Disallow: /
```

- Block training
- Block LLM web browsing
- Block Al agent 1

#### Category: Press

- · Scanned: 51
- V Passing: 24 %
- @ Blocked: 76 %
- ? Unknown: 0 %

#### 

- · Scanned: 8
- **V** Passing: 75 %
- Blocked: 25 %
- ? Unknown: 0 %

#### Category: Artist

- · Scanned: 42
- V Passing: 74 %
- @ Blocked: 21 %
- ? Unknown: 0 %

(**s**only)

#### Category: X

- · Scanned: 6
- **V** Passing: 100 %
- Plocked: 0 %
- ? Unknown: 0 %

#### Category: Religion

- · Scanned: 5
- **V** Passing: 100 %
- Blocked: 0 %
- ? Unknown: 0 %

Name	Status
Adobe Stock	V
Getty Images	V
Pexels	V
Pixabay	V
500px	V

#### Shame list

Name	Status
Medium	
Quora	
Elsevier	
ScienceDirect	
Scopus	
Science	<b>a</b>

https://github.com/samber/the-great-gpt-firewall

## Contenu authentique?



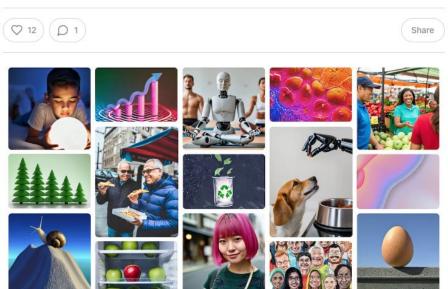


## Contenu authentique?

## Getty Completes its Reversal on Generative Al and Launches Generative Al by iStock

You can pay to generate images, but your rights of use are limited according to Getty





## Duolingo turns to Al to generate content, cuts 10 percent of its contractors

The language learning app is increasingly relying on AI to create its lessons.

By Amanda Yeo on January 9, 2024



Credit: Nikolas Kokovlis / NurPhoto via Getty Images

### Contenu authentique?

## Amazon confronté à une déferlante de « faux livres » générés par intelligence artificielle

Le géant américain a réduit à trois le nombre de livres publiés chaque jour sur sa plate-forme Kindle Direct Publishing par un même « auteur », en obligeant à spécifier s'il a été écrit par IA. Sans donner de détails sur ses éventuelles sanctions.

Par Nicole Vulser

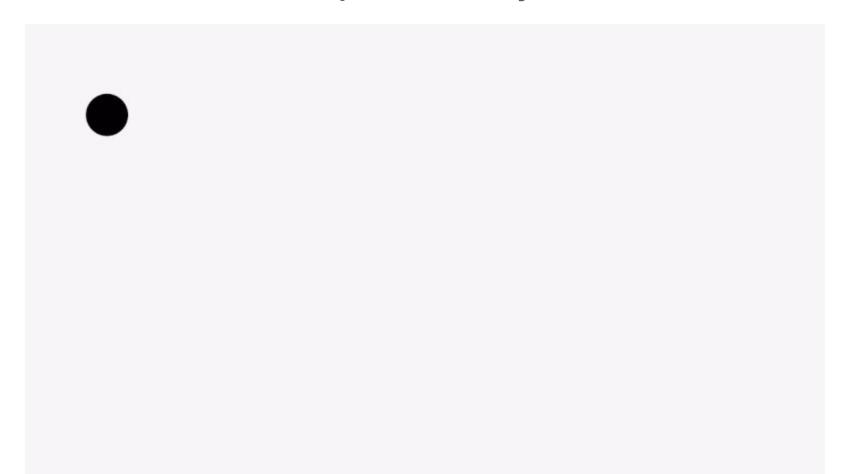
Publié le 12 décembre 2023 à 18h33, modifié le 13 décembre 2023 à 05h38 · 🐧 Lecture 4 min.

Article réservé aux abonnés



AUREL

## **OpenAl** memory





**GPT-3.5** Turbo

Input: -50%

Output : -25%

**GPT-4 Turbo** 

Moins paresseux









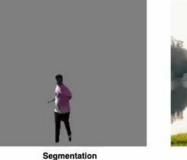
Prompt: A beautiful landscape with a river in the middle, the left of the river is in the evening and in the winter with a big iceberg and a small village while some people are skiing on the river and some people are skating, the right of the river is in the summer with a volcano in the morning and a small village while some people are playing.

















Original video











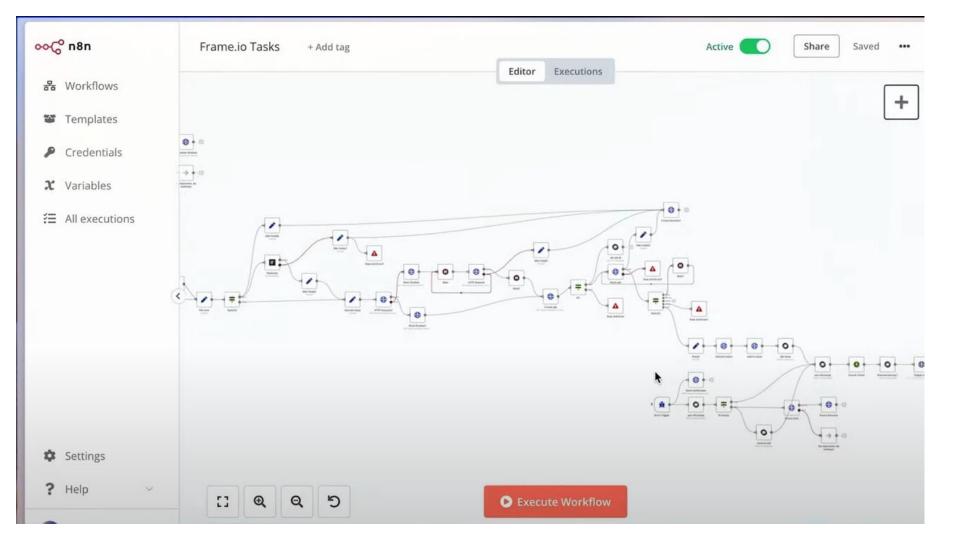


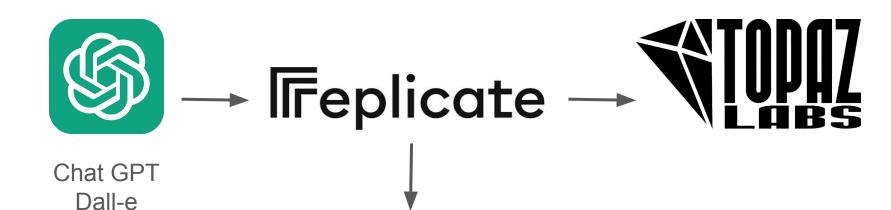




# TOPAZA

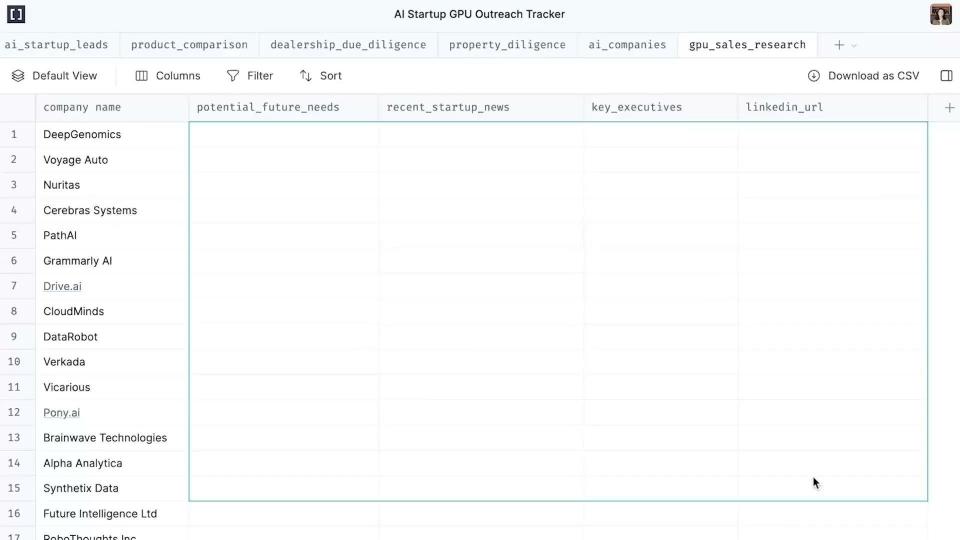




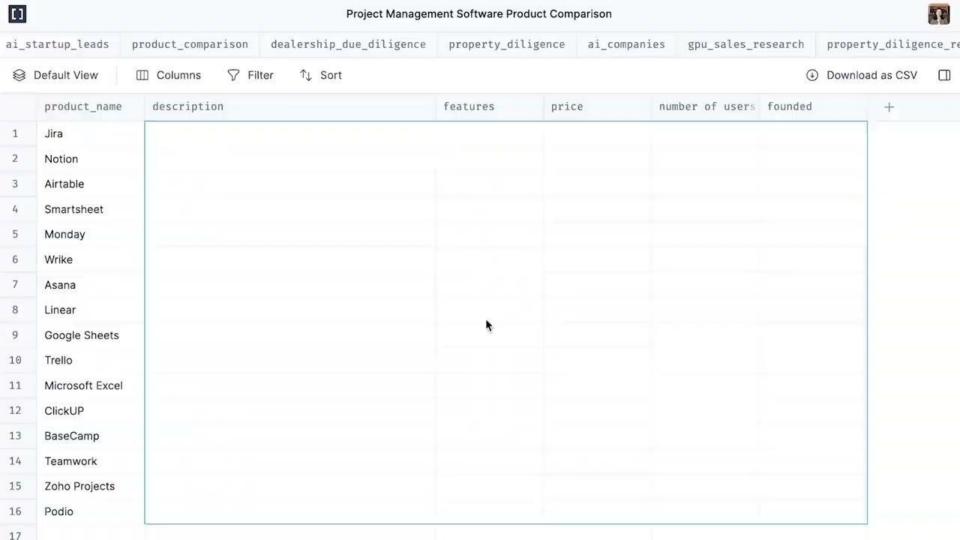




Source: <a href="https://www.youtube.com/watch?v=OjdIgxvZVYw">https://www.youtube.com/watch?v=OjdIgxvZVYw</a>

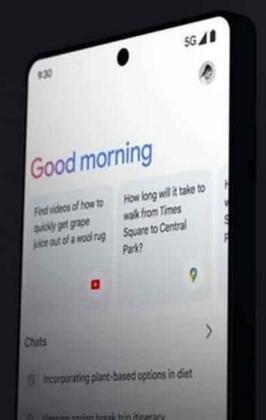


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usac	o_medalists	ioi_medalists	ipho_medalists	imo_medalists	+ ~		
8	Default View	□ Columns		rt		Download as CSV	
	Name	Best Medal	Years Awarded	Country	LinkedIn URL	Current Job Title	+
1	Aleksei Volostn	ov <b>h</b>					
2	William Hu						
3	Yixiao Li						
4	David Stoner						
5	Fabio Pruneri						
6	James Lin						
7	Ryoshun Oba						
8	Mikhail Ivanov						
9	Yixuan Wang						
10	Sehun Kim						
11	Jongwon Lee						
12	Po-Jui Chen						
13	Ashwin Sah						
14	Allen Liu						
15	Victor Wang						
16	Jiyang Gao						



# [] Matrices

# Gemini



□ Gernini Advanced •

Hello, Lisa. How can I.

> Walk the firesign. School a problem

Per tend de la commune de marge Contra de la commune de la

#### Gemini Pro 1.5

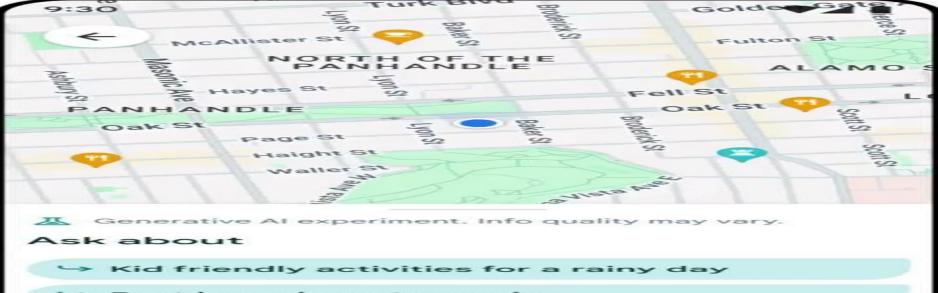
1M de tokens (films, livres en entiers)

Mixture of Experts (cf Mixtral 8x7B)

Source:

https://blog.google/technology/ai/google-g emini-next-generation-model-february-202 4/#sundar-note

	Benchmark	Gemini		
		1.0 Pro	1.0 Ultra	1.5 Pro
	Hellaswag (Zellers et al., 2019)	84.7% 10-shot	87.8% 10-shot	92.5% 10-shot
	MMLU: Multiple-choice questions in 57 subjects (professional & academic). (Hendrycks et al., 2021a)	71.8% 5-shot	83.7% 5-shot	81.9% 5-shot
	GSM8K: Grade-school math problems. (Cobbe et al., 2021)	77.9% 11-shot	88.9% 11-shot	91.7% 11-shot
Math, Science & Reasoning	MATH: Math problems ranging across 5 levels of difficulty and 7 sub-disciplines. (Hendrycks et al., 2021b)	32.6% 4-shot Minerva prompt	53.2% 4-shot Minerva prompt	58.5% 4-shot Minerva prompt 59.4% 7-shot
	AMC 2022-23: 250 latest problems including 100 AMC 12, 100 AMC 10, and 50 AMC 8 problems.	22.8% 4-shot	30% 4-shot	37.2% 4-shot
	BigBench - Hard: A subset of harder tasks from Big Bench formatted as CoT problems. (Srivastava et al., 2022)	75.0% 3-shot	83.6% 3-shot	84.0% 3-shot
	DROP: Reading comprehension & arithmetic. (Metric: F1-Score). (Dua et al., 2019)	74.1% Variable shots	82.4% Variable shots	78.9% Variable shots
Coding	HumanEval chat preamble* (Metric: pass rate). (Chen et al., 2021)	67.7% 0-shot (PT)	74.4% 0-shot (PT)	71.9% 0-shot
	Natural2Code chat preamble* (Metric: pass rate).	69.6% 0-shot	74.9% 0-shot	77.7% 0-shot
Multilinguality	WMT23: sentence-level machine translation (Metric: BLEURT). (Tom et al., 2023)	71.73 (PT) 1-shot	74.41 (PT) 1-shot	75.20 1-shot
	MGSM: multilingual math reasoning. (Shi et al., 2023b)	63.45% 8-shot (PT)	78.95% 8-shot (PT)	88.73% 8-shot



→ Best brunch spots nearby

→ Things to do for outdoor enthusiasts near me

→ Fun things to do with friends nearby

Ask a question. The more detail, the better the ideas.







# Soirée Meetup

## Generative Al par la pratique :

cas concrets d'utilisation d'un LLM en Java, avec l'API PaLM, Gemini et LangChain4J



Guillaume LAFORGE
@Google





15 février



19h

