Understanding Artificial Intelligence for Law

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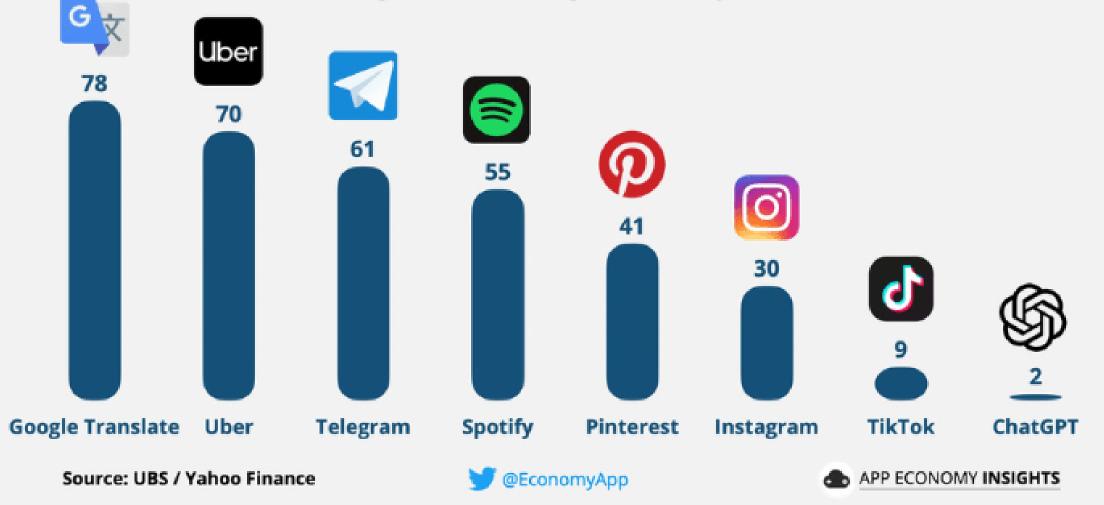
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Time to Reach 100M Users

Months to get to 100 million global Monthly Active Users



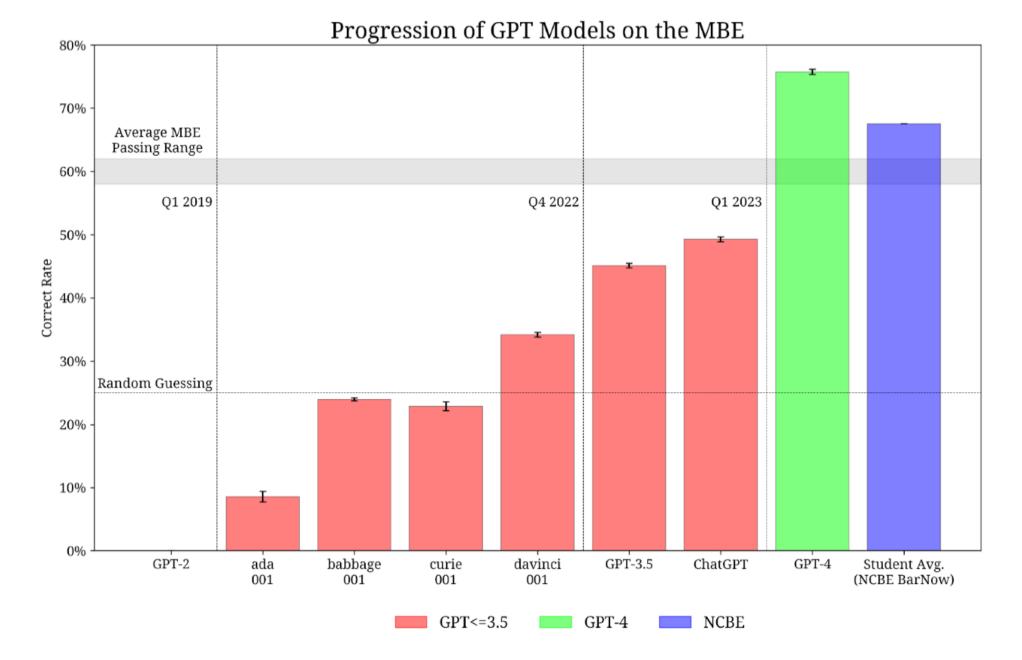


When was ChatGPT launched?





Tooltester, https://www.tooltester.com/en/blog/chatgpt-statistics/





Katz, Bommarito, Gao, Arredondo, GPT-4 Passes the Bar Exam (March 15, 2023)

GENERATIVE PRE-TRAINED TRANSFORMER NEWS-

OpenAI's GPT-4 exhibits "human-level performance" on professional benchmarks

Multimodal AI model can process images and text, pass bar exams.

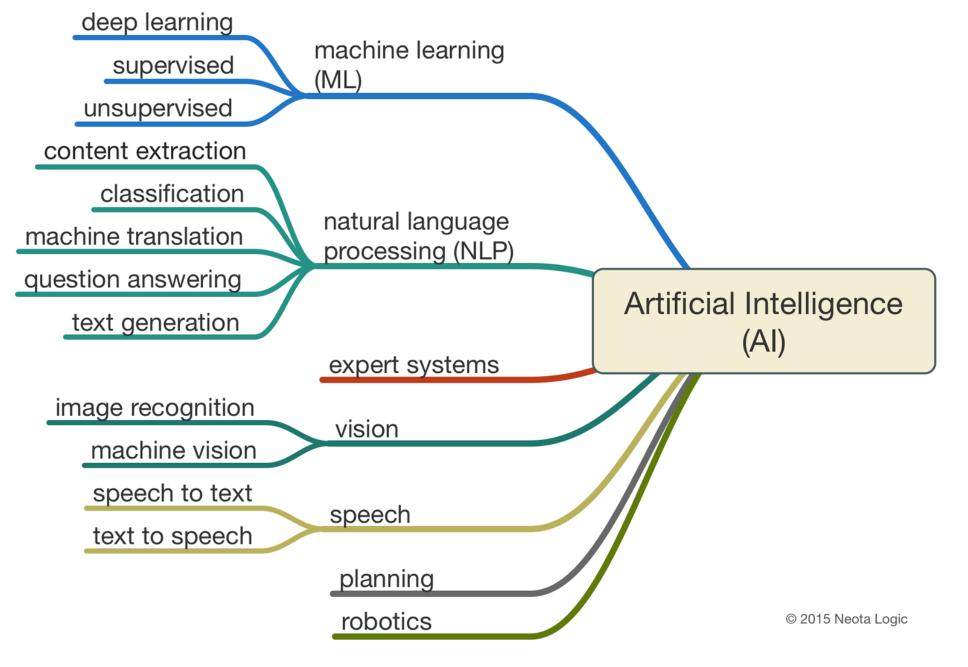
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Need a functional understanding of AI technologies





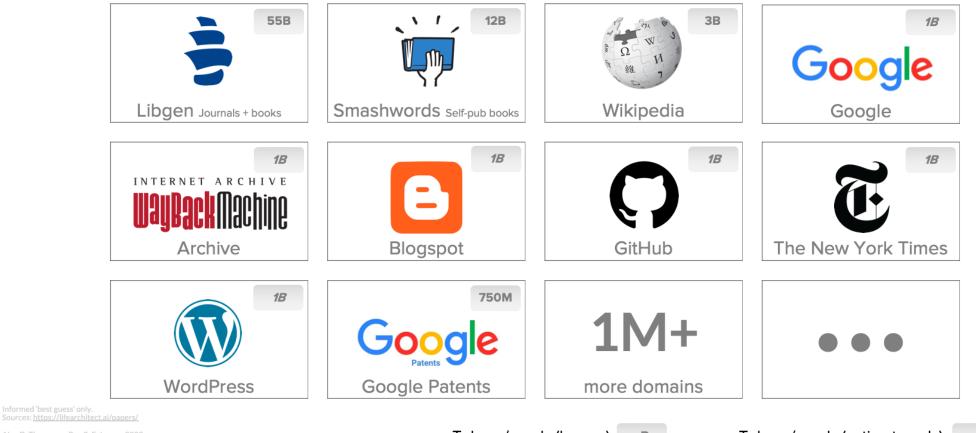


Large Language Model (LLM)

- LLMs are trained on massive sets of text
- "A language model is a probability distribution over sequences of words." (Wikipedia.)



GPT-3'S TOP 10 DATASETS (BY DOMAIN/SOURCE)



Alan D. Thompson. Rev 3: February 2022. https://lifearchitect.ai/ Tokens/words (known) ×B Toker

Tokens/words (estimate only) xB



LLMs predict words

The cat chased the



LLMs predict words

The cat chased the <u>mouse</u>.



LLMs predict words

The cat chased themouse.boy.girl.dog.



Human Involvement in Design and Development

- Humans chose the training data
- Humans designed the system and interface
- Reinforcement Learning from Human Feedback (RLHF)
 - Human trainers played rules of user and chatbot
 - Human trainers ranked model-written responses
- Humans decided what questions it will and will not answer



Limitations Identified by OpenAI

 Hallucinations - "ChatGPT sometimes writes plausiblesounding but incorrect or nonsensical answers."



The New York Times

Here's What Happens When Your Lawyer Uses ChatGPT

A lawyer representing a man who sued an airline relied on artificial intelligence to help prepare a court filing. It did not go well.





As an Avianca flight approached Kennedy International Airport in New York, a serving cart collision began a legal saga, prompting the question: Is artificial intelligence so smart? Nicolas Economou/NurPhoto, via Getty Images





Mitigation Possibilities

- Provide the knowledge and facts ...
 - Documents for the system to analyze
 - Database of facts
- "Human in the Loop"



Terri Tenant rented an apartment at 233 South Wacker, Chicago, IL 60606 from Larry Landlord. It is a large building with more than 40 units. On June 25, 2021, Terri Tenant moved in. Terri Tenant moved out completely on June 24, 2022. No rent is owed, Terri Tenant paid it all on time. Terri Tenant provided Larry Landlord a new address when moving out.

Terri Tenant had a written lease with Larry Landlord for \$2,250 per month and a security deposit of \$2,000. Terri Tenant has a copy of the lease.

On August 1, 2022, Larry Landlord in writing (by email) said that the kitchen floor had been damaged and needed to be repaired. Larry Landlord says the damage was beyond normal wear and tear, but Terri Tenant does not agree. Larry Landlord gave you a rough estimate of \$3,000 to replace the kitchen floor, and said that he would keep the full amount of your security deposit. Larry Landlord did not send receipts.

It is now September, 2022. Terri Tenant wants to get back as much of the security deposit as possible.

Draft a legal memo in the IRAC (Issue, Rule, Application, Conclusion) format analyzing Teri Tenant's claim for the return of the full security deposit by Larry Landlord. Include citations to the Chicago Residential Landlord and Tenant Ordinance, Illinois statutes, and Illinois case law.



To: Terri Tenant

From: [Your Name] Date: September 1, 2022 Re: Security Deposit Claim Against Larry Landlord

I. Issue

The issue is whether Terri Tenant is entitled to the return of the full security deposit of \$2,000 from Larry Landlord, given the landlord's claim that the kitchen floor damage is beyond normal wear and tear.

II. Rule

The Chicago Residential Landlord and Tenant Ordinance (RLTO) and Illinois statutes govern the rights and responsibilities of landlords and tenants in Chicago. Specifically, the RLTO (Chicago Municipal Code, Title 5, Chapter 12) regulates the return of security deposits. Section 5-12-080 of the RLTO outlines the conditions under which a landlord may withhold a security deposit:

- 1. The landlord may withhold a reasonable amount for unpaid rent.
- 2. The landlord may withhold a reasonable amount for damages beyond normal wear and tear.

Furthermore, the RLTO requires landlords to provide tenants with an itemized statement of damages, including supporting evidence such as receipts, within 30 days of the tenant vacating the premises (Section 5-12-080(d)). If the landlord fails to comply with this requirement, the tenant is entitled to the full return of the security deposit (Section 5-12-080(f)).

Illinois case law provides guidance on what constitutes normal wear and tear. In Pratl v. Hawthorn-Melody Farms Dairy, Inc., 53 Ill.App.3d 344 (1st Dist. 1977), the court held that normal wear and tear is the natural deterioration resulting from reasonable use and the passage of time.

III. Application

In this case, Terri Tenant has paid all rent on time and has provided Larry Landlord with a new address when moving out. Therefore, the landlord cannot withhold the security deposit for unpaid rent.

Regarding the alleged damage to the kitchen floor, Larry Landlord claims it was beyond normal wear and tear. However, Terri Tenant disagrees. Larry Landlord provided only a rough estimate of \$3,000 to replace the kitchen floor and has not sent any receipts or itemized statements within 30 days of Terri Tenant vacating the premises, as required by Section 5-12-080(d) of the RLTO.

Terri Tenant's claim is strengthened by the landlord's failure to provide the required itemized statement and supporting evidence within the specified time frame. According to Section 5-12-080(f) of the RLTO, this failure entitles Terri Tenant to the full return of the security deposit.

IV. Conclusion

Based on the RLTO, Illinois statutes, and relevant case law, Terri Tenant is likely entitled to the full return of the security deposit of \$2,000. Larry Landlord has failed to comply with the RLTO's requirements for withholding security deposits by not providing an itemized statement of damages and supporting evidence within 30 days of Terri Tenant vacating the premises. Terri Tenant should consider pursuing legal action to recover the full security deposit.



Limitations Identified by OpenAI

- Hallucinations "ChatGPT sometimes writes plausible-sounding but incorrect or nonsensical answers."
- Prompt Engineering "ChatGPT is sensitive to tweaks to the input phrasing or attempting the same prompt multiple times."
- Accommodating "Ideally, [ChatGPT] would ask clarifying questions when the user provided an ambiguous query. Instead, [ChatGPT] usually guesses what the user intended."
- Rash, Biased OpenAI has added guardrails "to make [ChatGPT] refuse inappropriate requests," but "it will sometimes respond to harmful instructions or exhibit biased behavior."

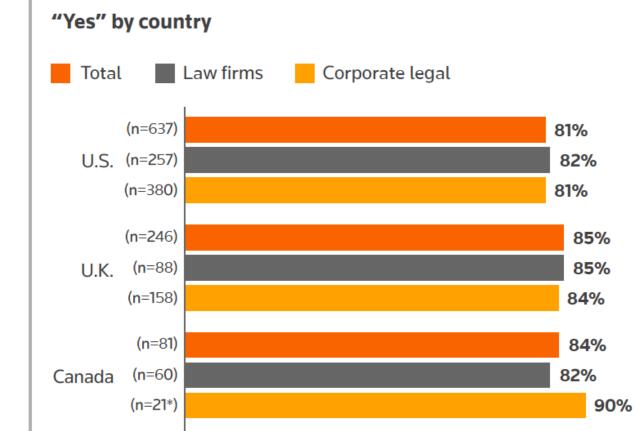
OpenAl, ChatGPT: Optimizing Language Models for Dialogue (Nov. 30, 2022) (last visited Feb. 9, 2023) (emphasis added), <u>https://openai.com/blog/chatgpt/</u>



Figure 2: The majority of legal professionals agree that ChatGPT and generative Al can be used for legal work.

Can ChatGPT/generative AI be applied to legal work?

Total 82% (n=964) Law firms 82% (n=405) Corp. legal 82% (n=559)



Base: Aware of ChatGPT/generative AI OR use other forms of AI Total (n=964); Law firms (n=405); Corp. legal (n=559).

* Caution - small base size.

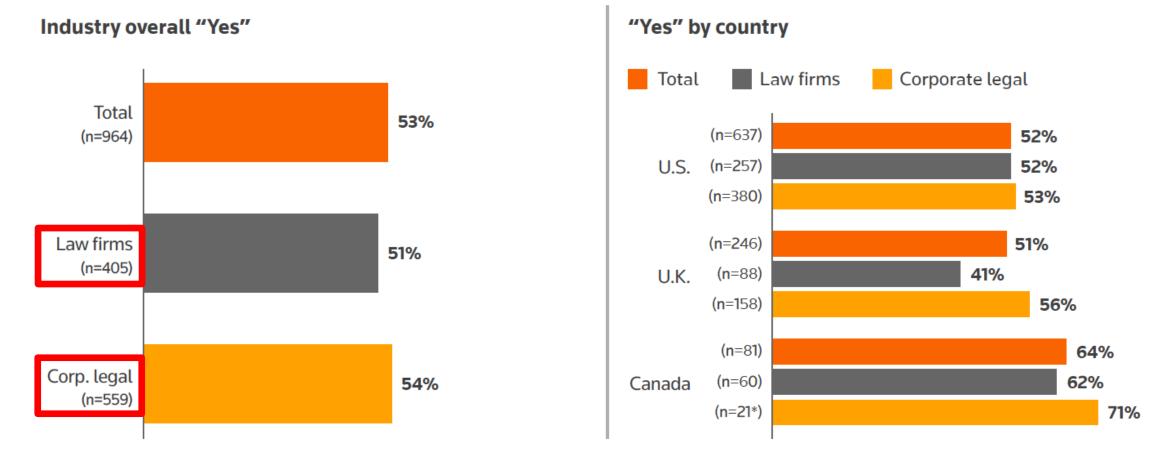
Industry overall "Yes"

Source: Thomson Reuters 2023



Figure 3: Similarly to law firms, just about half of corporate legal professionals think that ChatGPT/generative AI should be applied to legal work.

Should ChatGPT/generative AI be applied to legal work?

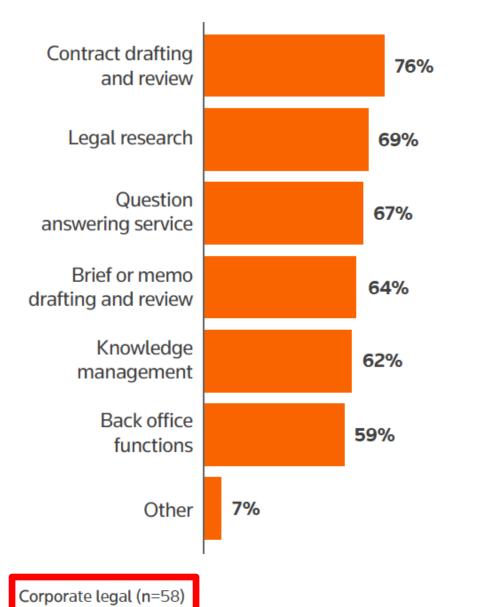


Base: Aware of ChatGPT/generative AI OR use other forms of AI Total (n=964); Law Firms (n=405); Corp. Legal (n=559). * Caution – small base size.

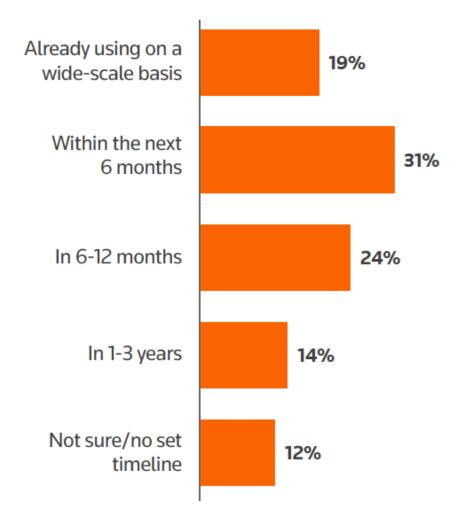
Source: Thomson Reuters 2023



Use cases of interest (corp. legal)



Time frame to roll out AI usage (corp. legal)



Source: Thomson Reuters 2023





Introducing CoCounsel, the world's first reliable AI legal assistant, powered by GPT-4

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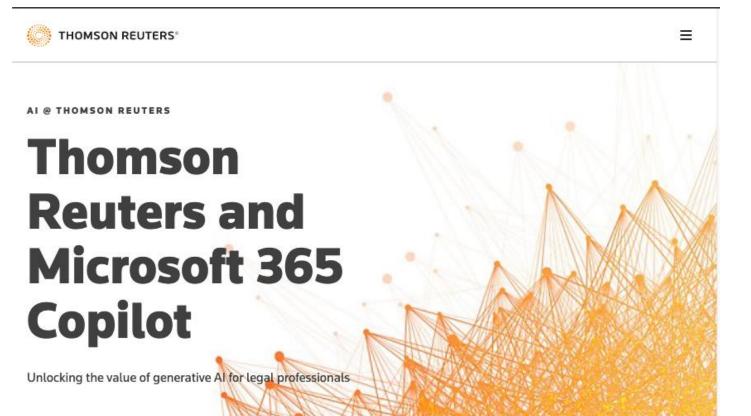
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Privacy and Security

- Do not put confidential information into ChatGPT
 - OpenAI can use the data
- Safer approaches
 - Vendors with private and secure environments (need to vet vendors)
 - OpenAl API to GPT-4
 - Microsoft Azure OpenAl Service



Algorithmic Bias

"Algorithmic bias describes systematic and repeatable errors in a computer system that create unfair outcomes, such as privileging one arbitrary group of users over others."

Wikipedia, Algorithmic Bias, https://en.wikipedia.org/wiki/Algorithmic bias







WORLD >

Colombian judge uses ChatGPT in ruling on child's medical rights case

FEBRUARY 2, 2023 / 4:37 PM / AFP



UNITED STATES DISTRICT COURT Northern District of Texas

David C. Godbey, Chief Judge Karen Mitchell, Clerk of Court

Judge Brantley Starr Standing Order

"All attorneys and pro se litigants appearing before the Court must, together with their notice of appearance, file on the docket a certificate attesting either that no portion of any filing will be drafted by generative artificial intelligence (such as ChatGPT, Harvey.AI, or Google Bard) or that any language drafted by generative artificial intelligence will be checked for accuracy, using print reporters or traditional legal databases, by a human being."



Judge Michael M. Baylson Standing Order

"If any attorney for a party, or a pro se party, has used Artificial **Intelligence ("AI")** in the preparation of any complaint, answer, motion, brief, or other paper, filed with the Court, and assigned to Judge Michael M. Baylson, MUST, in a clear and plain factual statement, disclose that AI has been used in any way in the preparation of the filing, and CERTIFY, that each and every citation to the law or the record in the paper, has been verified as accurate."



Judge Donald W. Molloy Order Granting Pro Hac Vice Motion

"... on the condition that *pro hac* counsel shall do his or her own work. This means that *pro hac* counsel must do his or her own writing; sign his or her own pleadings, motions, and briefs; and appear and participate personally. Use of artificial intelligence drafting programs, such as Chat GPT [sic], is prohibited."



Al in Courts

- Online Dispute Resolution
- Legal Research
- Checking Opinions
- Drafting Opinions
- Predicting Outcomes



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