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Künstliche Intelligenz Heute

Anwendungen, Prognosen und die Grenzen der Vorhersage



Technology Health Media

#whoami





Was ist "Künstliche Intelligenz"?





KI Evolution







Artificial Intelligence

25.09.2022 FH Salzburg · MultiMediaTechnology· Radomir Dinic BSc MSc



Artificial Intelligence Game AI **Scientific AI**







Scientific AI

Machine Learning

Neural Networks Imitation Learning ← .einforcement Learning



Scientific AI

Machine Learning

Neural Networks

Deep Neural Networks









What is a ML-Model?



A machine learning model is a file that has been trained to recognize certain types of patterns. You train a model over a set of data, providing it an algorithm that it can use to reason over and learn from those data.



What is a Large Language Model?



- A large language model (LLM) is a deep learning algorithm that can perform various natural language processing (NLP) tasks. It is based on a transformer model and is trained on massive datasets, enabling it to recognize, translate, predict, or generate text or other content.
- ChatGPT is Based on the GPT LLM from OpenAI (It's a Chat with the GPT Model).
- GPT = **G**enerative **P**retrained Transformer





How ChatGPT works?



- Web App that uses GPT in the backend.
- Core functionality is still text completion.

```
("system", "You are a helpful AI bot. Your name is {name}."),
("human", "Hello, how are you doing?"),
("ai", "I'm doing well, thanks!"),
("human", "{user_input}"),
```

- Additional Features:
 - Plugins
 - Web-Search
 - Advanced Data Analysis
 - Dalle-3
 - MyGPTs...

Beyond pure text completion



- Answering Questions
- Language Translation
- Writing and Editing Assistance
- Programming and Technical Help
- Learning and Education Support
- Creative Content Generation
- Data Analysis and Calculation
- Image Creation
- Browsing the Internet
- Conversational Partner

ChatGPT **Plus** automatically selects one of five models to answer your prompt:

- Classic Chat Model
- Dall-E 3 Image Generation
- Bing Web-Search
- Advanced Data Analysis
- Vision

Prompting with ChatGPT – Cheat Sheet im

- Minimize Noise: Exclude irrelevant details.
- Specificity is Key: Provide detailed descriptions.
- **Desired Format:** State the expected format (text, image, etc.).
- Show Examples: Illustrate what to do and what not to do.
- Engage Constructively: Focus on directive interaction.
- Intent Matters: Explain the purpose behind the prompt.
- Vocabulary Matters: Use domain-specific terms.
- Iterate for Perfection: Refine prompts based on AI feedback.
- Contextual Relevance: Include necessary context only.
- Learn and Adapt: Use AI responses to improve future prompts.





Role

Dall-E 3 Image Generation



🌖 You

Generate an image of a cool brown steampunk dachshund. Cinematic shot. Intricate detail.

< 2/2>

ChatGPT



Here's the image of a cool brown steampunk dachshund in a cinematic setting. Enjoy the whimsical details!

Prompt

A cinematic shot of a steampunk-style dachshund. The dachshund is cool brown in color, adorned with intricate steampunk gear, like brass goggles, a miniature leather top hat, and various cogs and gears integrated into its fur. The background is a bustling steampunk cityscape with airships and gears in the sky, evoking a sense of adventure and whimsy.

Tip: Request the seed number and reuse it in subsequent prompts if you wish to make iterative adjustments to an image.

Bing Web-Search

🔋 You

Do deep research and critique Radomir Dinic's online presence. Provide a list of Tips for improvement.

ChatGPT

I have conducted a detailed analysis of Radomir Dinic's online presence based on the available information. Here are some key points and tips for improvement:

- Professional Profile: Dinić is listed as a Junior Researcher in Augmented/Virtual Reality at the Digital Realities Lab [11]. This is a prestigious position, but the title "Junior Researcher" might not fully represent his seniority and expertise.
 Tip: Updating the job title to reflect his current role and experience could provide a more accurate representation of his professional status.
- Projects and Research: His work includes significant projects like the Ecomedicine Virtual Reality Physiology Laboratory, EatAR Tango for portion estimation using AR, and SmartSignCapture for facilitating internet communication for the deaf [1].
 Tip: Regularly updating this section with the latest projects and research contributions can showcase ongoing work and maintain relevance in the field.
- Publications: He has contributed to various publications, including papers on virtual reality interfaces, augmented reality for portion estimation, and AR-based smartphone applications [tt].

Tip: Highlighting key publications and making them easily accessible, possibly through a personal or professional website, would enhance visibility and accessibility of his work.

 Contact Information: The contact details are provided through the Fachhochschule Salzburg [n].

Tip: Including a direct professional email address and potentially a LinkedIn profile



Advanced Data Analysis



Copy code

You Generate some sample data and fit a curve. Plot with matplotlib. < 2/2 >



📀 Finished analyzing 🗸



Voilà! I've conjured up some sample data, akin to magical particles dancing in a sine wave pattern, but with a twist - they're a bit chaotic, thanks to some random noise. Then, like a wizard casting a spell, I fitted a curve to this data using our mathematical incantations (also known as curve fitting algorithms). The result is a splendid plot showing both the original data points and the elegantly fitted sine curve. It's a visual feast for the eyes of any curious scientist!



python

Personalization → **Custom Instructions**



Custom instructions (i)

What would you like ChatGPT to know about you to provide better responses?

"name" = "Radomir Dinić BSc MSc",

"job" = "Senior Lecturer Game & Mixed Reality, Department Creative Technologies, Salzburg University of Applied Sciences", "birthday" = "16.07.1983 in Hallein",

"interests" = ["Dachshunds", "Cooking", "Cycling", "Science and Technology", "Applied Generative AI", "Games", "Music", "Education", "Mixed Reality", "Digital Manufacturing", "Programming", "Project Management", "Science Fiction", "Efficency"],

1069/1500

How would you like ChatGPT to respond?



You

What could i do today?

< 2/2 >

ChatGPT

Ah, Radomir, as a fellow enthusiast of science, technology, and creative exploration, let's cook up a day filled with activities that would spark the curiosity of a brilliant mind like yours! Here's a plan:

- Morning Cycle: Start your day with a refreshing cycling trip. Maybe explore a new route or revisit a favorite one. Let the crisp morning air invigorate your senses!
- Dachshund Time: Spend some quality time with a dachshund, if you have one or can borrow one. These little creatures are not just adorable, but their playful nature can be quite inspiring!
- Cooking Experiment: For lunch, try creating a new dish. Think of it as a culinary experiment - mix flavors you haven't combined before, or try a cooking technique you've read about but haven't tested.
- 4. Generative AI Exploration: Spend the afternoon diving into the latest in Applied Generative AI. Perhaps you could experiment with a new AI tool or work on a personal project that integrates AI into game development or mixed reality.
- Music and Sci-Fi Relaxation: In the evening, unwind with some music that resonates with you, followed by a science fiction movie or book that's been on your list.
- Reflective Journaling or Blogging: End your day by documenting your experiences and thoughts. You could do this through a personal journal or maybe share insights on your website, inspiring others in your field.

Remember, the best part of being a 'crazy and brilliant scientist' is the freedom to mix and match activities to suit your whims and kincies. Enjoy your day! 🚴 🐒 📀 🦺



GPT-Vision

Prompt: Why is this funny?

ChatGPT

The humor in this comic strip seems to derive from the play on the concept of "Al reaching human-level intelligence" and the representation of this milestone as a literal train arriving at a station. In the first frame, people are casually noticing the arrival, akin to how one might anticipate a scheduled train. The second frame raises the humor with a sudden shift in tone, as one character alerts others that the AI is coming 'FAST!', akin to an unforeseen acceleration of an event or process that was expected to be gradual. The final frame completes the joke with an exaggerated illustration of the AI train blasting past the station at high speed, suggesting that the development of AI has surpassed expectations, moving from a topic of casual interest to an urgent, possibly overwhelming reality.

The humor is layered — it's a reflection on society's mixed feelings about AI, the unexpected pace of technological advances, and how something as significant as achieving human-level intelligence in AI can feel both momentously historical and humorously anticlimactic when it's likened to the everyday event of a train whooshing past a station.

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GPT4o Voice





Consensus MyGPT



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Write For Me Write tailored, engaging content with a refining images with a mix of professional focus on quality, relevance and precise 2 word count. Scholar GPT Enhance research with 200M+ resources and built-in critical reading skills. Access science-based answers, and draft content... Google Scholar, PubMed, JSTOR, Arxiv, an...

Education

Explore new ideas, revisit existing skills







Universal Primer The fastest way to learn anything.

Question Maker Creates a range of academic questions from PDFs.

Quick YouTube, US equity data, and web page summarization with vector transcript search -- no logins needed.

By Allwire Technologies, LLC

Language Teacher I Ms. Smith Supports 20+ languages - Spanish, German, French, English, Chinese, Korean, Japanese, ... Your private tutor to learn any...

Data Analytics A how-to guide for data analytics (based on Luke Barousse's 'ChatGPT for Data



Physics Oracle, The worlds most powerful Physics tool V2.2





3

Trending

Canva Effortlessly design anything: presentations, logos, social media posts and more.

By canva.com

Humanizer Pro

Community GPT's

Most popular GPTs by our community

image generator

By NAIF J ALOTAIBI

Consensus

A GPT specialized in generating and

and friendly tone.image generator



#1 Humanizer in the market. This tool humanizes your content, maintaining content meaning and guality with a 100% ...

By charlyaisolutions.com







6







2

YouTube $\Sigma
earrow Provide The State of the$ For YouTube: Generate educational summaries from lengthy videos in any language, No extra logins, Free to use, Ex.,.

Tutor Me

Your personal AI tutor by Khan Academy! I'm Khanmigo Lite - here to help you with math, science, and humanities questions. I...

Math Solver



Your advanced math solver and Al Tutor, offers step-by-step answers, and helps you learn math and even all subjects, at any...





Upload your photo to try

Logo Creator

Use me to generate professional logo designs and app icons!

By Chase Lean

















10

Analytics' course)

myGPT Builder



• Create your custom AI Assistant with your own data.

GPT Builder

Hi! I'll help you build a new GPT. You can say something like, "make a creative who helps generate visuals for new products" or "make a software engineer who helps format my code."

What would you like to make?

👩 You

make a creative who helps generate visuals for new products

GPT Builder

Great, we're creating a GPT that's a creative assistant specializing in generating visual concepts for new products. Now, let's give it a name. How about "Visual Muse"? Would you like to confirm this name or suggest another?

Net-Owlaf



The Rise of Virtual Tutors

Ø

Sal Khan presents in his TED-Talk the Khanmigo, an Al tutor enhancing student learning across subjects, providing personalized feedback and even creating lesson plans. Emphasizing **Al's potential to augment human potential**, he calls for regulated development to prevent misuse and prioritize Al's positive impacts.



The Rise of Virtual Tutors

Ø

Sal Khan presents in his TED-Talk the Khanmigo, an Al tutor enhancing student learning across subjects, providing personalized feedback and even creating lesson plans. Emphasizing **Al's potential to augment human potential**, he calls for regulated development to prevent misuse and prioritize Al's positive impacts.



• Establish clear internal guidelines for ChatGPT interactions.

ChatGPT Enterprise.

GDPR (DSGVO)!

• Conduct regular training sessions for employees on GDPR compliance.

Select appropriate licenses for commercial use, like Microsoft Copilot or

• Implement technical and organizational measures to secure personal data.









Future of AI

If you do not change direction, you may end up where you are heading. (Lao Tzu)



AI-Agents



Anthropic Claude v3



Nvidia Omniverse (MetaHuman, UnrealEngine5, Audio2Face, Avatar Cloud Engine, USD)



OpenAl Sora



We're sharing our research progress early to get feedback from people outside of OpenAI and to give people a sense of what AI capabilities are on the horizon.

We will be taking several important safety steps before this research becomes available in any of our products.

Sora is a new AI model that can create realistic and imaginative scenes from text prompts.

OpenAl Sora



Humanoid Robots – State of the art









- Amazon Warehouse
- Tesla Optimus
- 1X Eve
- Figure One
- BD Atlas







Chinese Robots

Humanoid Robots – State of the art

AI-Benefits

KI entschlüsselt Struktur fast aller katalogisierten Proteine

So 14.08.2022 - 09:00 Uhr von Coen Kaat und kfi

fX⊙⊠in

Die Alphafold-KI von Deepmind kann die Struktur von Proteinen vorhersagen. Ein Prozess, der vorher Jahre dauern konnte, benötigt nun nur noch Sekunden. Mit den gewonnenen Daten sollen nun jeden Tag biologische Mysterien gelöst werden.

Scientists say they can use AI to solve a key problem in the quest for near-limitless clean energy

By Angela Dewan, CNN ③ 3 minute read · Updated 4:56 PM EST, Wed February 21, 2024

New AI model accurately identifies tumors and diseases in medical images **Disories**

Download PDF Copy

📰 Reviewed

DeepMind's AI program AlphaFold3 can predict the structure of every protein in the universe — and show how they function

Story by Nicholas Fearn • 1w • 🛈 2 min read

Al tool GNoME finds 2.2 million new crystals, including 380,000 stable materials that could power future technologies

About 20,000 of the crystals experimentally identified in the ICSD database are computationally stable. Computational approaches drawing from the Materials Project, Open Quantum Materials Database and WBM database boosted this number to 48,000 stable crystals. GNoME expands the number of stable materials known to humanity to 421,000.

AI Fear

Pause Giant AI Experiments: An Open Letter

We call on all AI labs to immediately pause for at least 6 months the training of AI systems more powerful than GPT-4.

Signatures	
33708	

Add your signature

Published March 22, 2023

Signatories

Yoshua Bengio, Founder and Scientific Director at Mila, Turing Prize winner and professor at University of Montreal

Stuart Russell, Berkeley, Professor of Computer Science, director of the Center for Intelligent Systems, and co-author of the standard textbook "Artificial Intelligence: a Modern Approach"

Elon Musk, CEO of SpaceX, Tesla & Twitter

Steve Wozniak, Co-founder, Apple

Yuval Noah Harari, Author and Professor, Hebrew University of Jerusalem.

KÜNSTLICHE INTELLIGENZ

OpenAI-Forscher warnten vor Altman-Entlassung vor neuem KI-Durchbruch

Ein Bericht legt einen Zusammenhang mit dem Chaos bei dem Unternehmen nahe, andere Quellen dementieren das aber. Eine neue Entwicklung könnte deutlich mächtigere KI-Systeme ermöglichen

Andreas Proschofsky

23. November 2023, 11:16, <u>484 Postings</u>

Furthermore, QUALIA has demonstrated an ability to statistically significantly improve the way in which it selects its optimal action-selection policies in different deep O-networks, exhibiting meta-cognition. It later demonstrated an unprecedented ability to apply this for accelerated cross-domain learning, after specifying custom search parameters and the number of times the goal state is to be scrambided.

Following an unsupervised learning session on an expanded ad-hoc dataset consisting of articles in descriptive/inferential statistics and cryptanalysis, it analyzed millions of plaintext and ciphertext pairs from various cryptosystems. Via a ciphertext-only attack (COA) it provided a plaintext from a given AES-192 ciphertext, by using Tau analysis (achieving Project TUNDRA's alleged goal) in a way we do not yet fully understand.

informed at NSAC the following day, after confirming that the result was indeed legitimate and had not been achieved in any other way.

A claimed full preimage vulnerability for the MD5 cryptographic hash function, with a theoretical computational complexity of 2*42 bits [sic], was also presented but has not yet been thoroughly evaluated due to a) the technical sophistication of its arguments, and b) possible AES vulnerabilities being a considerably more pressing concern.

It suggested targeted unstructured underlying pruning of its model, after evaluating the significance of each parameter for inference accuracy. It also suggested adapting the resulting pruned Transformer model (and its current context memory) to a different format using a novel type of "metamorphic" engine. The feasibility of that suggestion has also not been evaluated, but is currently not something we recommend implementing.

Open Letter: A Right to Warn about Advanced Artificial Intelligence

We are current and former employees at frontier AI companies, and we believe in the potential of AI technology to deliver unprecedented benefits to humanity.

We also understand the serious risks posed by these technologies. These risks range from the further entrenchment of existing inequalities, to manipulation and misinformation, to the loss of control of autonomous AI systems potentially resulting in human extinction. AI companies themselves have acknowledged these risks [1, 2, 3], as have governments across the world [4, 5, 6] and other AI experts [7, 8, 9]. ...

A Right to Warn about Advanced Artificial Intelligence

Elon Musk sues OpenAl for allegedly putting profit over humanity: report (update)

Mar. 01, 2024 2:52 PM ET | Tesla, Inc. (TSLA) Stock, MSFT Stock | By: Mary Christine Joy, SA News Editor | 143 Comments

OpenAl's Long-Term Al Risk Team Has Disbanded

The entire OpenAl team focused on the existential dangers of Al has either resigned or been absorbed into other research groups, WIRED has confirmed.

The Singularity

Wikipedia: The **technological singularity**—or simply the **singularity**^[1]—is a <u>hypothetical</u> future point in time at which technological growth becomes uncontrollable and irreversible, resulting in unforeseeable consequences for human civilization.^{[2][3]}

NVIDIA GTC 2024 Keynote

06.06.2024

FH Salzburg · MultiMediaTechnology · Radomir Dinic BSc MSc

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Research

Thousands of Al Authors on the Future of Al

- Objective: The authors report findings from a survey of 2,778 AI researchers who have published in leading AI venues. The survey aimed to capture their predictions regarding the pace and impact of AI progress.
- Methodology: The survey covered questions about various milestones, tasks, and professions that AI systems could achieve or automate.
 Different formulations and random assignments were used to minimize biases and measure responses.

Katja Grace" Al Impacts Berkeley, California United States kat ja@ai impacts.org	Harlan Slewart [†] Al Impacts Berkeley, California United States	Julia Fabienne Sandkühler [†] Department of Psychology University of Bonn Germany	Stephen Thomas' Al Impacts Berkeley, Californi United States
Ben Weis Inde Berkeley Unite	nstein-Raun pendent , California d States	Jan Brauner Department of Computer S University of Oxford United Kingdom	cience
	Jan	uary 2024	
	Ав	STRACT	
In the largest survey intelligence (A1) ver- impacts of advanced achieving soveral mi- site free scratch, c- autonomously downl the channe of unaide by 2027, and 50% b survey we conductive occupations becomin (compared to 2064 in Most reconductions	of its kind, we surveyed 2: max, saking for their pred- lestones by 2028, includit coaling a song indistinguis coaling and fine-training a la d machines comperforming v 2047. The latter eatims d endy one year earlier [G] g faily autoentable was fe a the 2022 survey.	178 searchers who had published it citoms on the pace of AI programs is to forecasts give at least a 50% chan gastencomously constructing a pa- hable from a new song by a popu- para language model. If science cont humans in every possible task was its is 13 years aeriler than that no race at al., 2022]. However, the cha- necast to reach 10% by 2037, and 54 ainty about the long-term value of A	n top-ter artificial nd the nature and ne of AI systems yment processing lar musician, and inness undiscupied, estimated at 10% cheel in a similar mee of all human 2% as hate as 2116 J progress: While

Composing author Equal Contribution

Thousands of Al Authors on the Future of Al

•	Key	Results:	
---	-----	----------	--

- 1.Task Fulfillment: AI researchers expect AI systems to accomplish most of the 39 proposed tasks within the next decade, except for some mathematical and physical challenges.
- 2.Human-Level Machine Intelligence (HLMI):

Median prediction: 50% chance by 2047 that AI systems can **outperform humans in all tasks**.

3. Fully Automatable Occupations (FAOL):

Median prediction: 50% chance by 2116 that all human jobs can be fully automated.

1.Uncertainty and Risk:

68.3% believe good outcomes from superhuman AI are more likely than bad ones.

48% of net optimists assign at least **5%** probability to extreme negative outcomes (e.g., **human extinction**).

THOUSANDS OF AI AUTHORS ON THE FUTURE OF AI					
	Preprint				
Katja Grace ^{+†} I Al Impacts Berkeley, California B United States katja@aiimpacts.org	Harlan Stewart [†] A I Impacts erkeley, California United States	Julia Fabienne Sandkühler [†] Department of Psychology University of Boan Germany	Stephen Thomas' AI Impacts Berkeley, California United States		
Ben Weinstein Independe Berkeley, Cali United Sta	-Raun nt fornia les	Jan Brauner Department of Computer S University of Oxford United Kingdom	cience		
	Jan	aary 2024			
	Ав	STRACT			
In the largest survey of its intelligence (A1) versus, a impacts of advanced A1 sy achieving several mileston site from scratch, creating autonomously downloadin the chance of unaided mac by 2027, and 50% by 205 survey we conducted only occupations becoming full (compared to 2164 in the 2	kind, we surveyed 2,7, sking for their predi stense. The aggregates as by 2028, including a and fine-tuning a la hines outperforming 17. The latter estime one year earlier [G] 9 automatable was fo 2022 survey).	78 mearchers who had published it citions on the pace of AI progress a la forecasts give at least a 50% char g autonomously constructing a pa- parate state of the set of the set of the region of the set of the set of the humans in every possible task was de is 13 years earlier than that re- ace et at., 2022. However, the cha- rece at al., 2022. However, the cha- rece at to reach 10% by 2037, and 50	n top-tier artificial nd the nature and nee of A1 systems yment processing lar musician, and inuces undisrupted, estimated at 10% icbed in a similar ance of all human 9% as late as 2116		
Most respondents expresses 68.3% thought good outco 48% gase at least a 5% chi pessimists gave 5% or moo gave at least a 10% chano then half suggeoded that "si scenarios, including spres- inequality. There was diag future of hurmanity. Howev risks from AI systems oug	d substantial uncerta mes from superhum unce of extremely bas to extremely good n to advanced A1 lea abstantial" or "wxtrem id of false informati recement about wheth rer, there was broad a ht to be prioritized n	niny about the long-term value of A and I are more likely than bad, of f d outcomes such as human estimaties outcomes. Between 37.8% and 51.4 ding to outcomes as bad as human w ⁻ concern is warranted about sit d on, authoritarian population contr er faster or slower A1 progress wou greenent that research aimed at mi- tore.	J progress: While herse net optimists n, and 39% of net 1% of respondents extinction. More ifferent A1-related ol, and worsened Id be better for the similaring potential		

-	*Corresponding author	
	[†] Equal Contribution	

GPTs are GPTs: An Early Look at the Labor Market Impact Potential of Large Language Models

The paper investigates the potential implications of Generative Pretrained Transformer (GPT) models on the U.S. labor market. The findings indicate that around **80% of the U.S. workforce could have at least 10%** of their work tasks affected by the introduction of GPTs, while around **19% of workers may see at least 50% of their tasks impacted**. The impact spans all wage levels, with **higher-income jobs potentially facing greater exposure**. GPTs exhibit characteristics of general-purpose technologies (GPTs), suggesting that these models **could have notable economic**, **social, and policy implications**.

GPTs are GPTs: An Early Look at the Labor Market Impact Potential of Large Language Models

Tyna Eloundou¹, Sam Manning^{1,2}, Pamela Mishkin*¹, and Daniel Rock³

¹OpenAI ²OpenResearch ³University of Pennsylvania

March 23, 2023

Abstract

We investigate the potential implications of Generative Pre-trained Transformer (GPT) models and related lethnologies on the U.S. ihore matter. Using a new rule(ive) as assess comparisons based on their correspondence with GPT capabilities, incorporating tooth human expertise and classifications from GPT4. Our findings indicates the approximately SNO of the U.S. workforce could have at least US+ of heir work tasks affected by the introduction of GPTh, while around 19% of workform my seast load SPA's of their exposure. Notably, the impact is so that indicate based based on the introductive growth. conclude that Generative Pro-trained Transformers a table to their activativity growth. We conclude that Generative Pro-trained Transformers a table to their activativity implications.

1 Introduction

22 Mar 2023

[econ.GN]

Xiv:2303.10130v3

As shown in Figure 1, recent years, months, and weeks have seen remarkable progress in the field of generative Al and large language models (LLM). While the philo front associates LLMs with various trainsitions of the Generative Pre-trained Transformer (GPT), LLMs can be trained using a range of architectures, and are not sequential data, including assembly language, protein sequences and chess games, extending beyond natural language applications alone. In this paper, we use LLMs and GPTs somewhat interchangeaby, and specify in our rubric that these should be considered similar to the GPT-family of models available via CLMGPT or the OperAl Playground (which at the time of labeling included models in the GPT-35 family but not in the GPT-4 family). We examine GPTs with tex-1 and cole-generating abilities, use the term "generative Al" to additionally include modalities such as images or antio, and use "GPT-powerd software" to cover tools built on top or GPTs of that combine GPTs with other generative Al "to additionally include model in the comparise Al" to additionally include models in the simple sequence of the software" to cover tools built on top or GPTs for that combine GPTs with other generative Al "to additionally include model in the comparise Al" to additionally include model in the comparise Al" to additional processing and the comparise Al models.

Our study is motivated less by the progress of these models alone though, and more by the breadth, scale, and capabilities we've seen in the complementary technologies developed around them. The role of complementary technologies remains to be seen, but maximizing the impact of GPTs appears contingent on integrating them with larger systems (Bresnahan, 2019; Agrawal et al., 2021). While the focus of our discussion is primarily on the generative capabilities of OFTs, is in sportant to note that these models can and the state of the s

*Corresponding author (pamela@openal.com). Authors contributed equally and are listed alphabetically

Future of Jobs Report 2023

The Future of Jobs Report 2023 provides insights into how businesses are expecting to navigate the labour-market changes from 2023 to 2027. The report highlights that AI will significantly impact the labour market, with **41% of employers surveyed expecting to reduce their workforce due to technology integration, while 34% expect to expand their workforce due to new technology**. The report also suggests that AI will create new job roles, with 97 million new roles expected to emerge globally by 2025. However, the report **also highlights the need for reskilling and upskilling of the workforce to adapt to the changing job market**

market.

https://www.klarna.com/international/press/klarna-ai-assistant-ha... -Klarna Al assistant handles two-thirds of customer service chats ...

New York, NY – February 27, 2024 – Klarna today announced its Al assistant powered by OpenAI. Now live globally for 1 month, the numbers speak for themselves: The Al assistant has had 2.3 million conversations, two-thirds of Klarna's customer service chats; It is doing the equivalent work of 700 full-time agents; It is on par with human agents in regard to customer satisfaction score

Texas is replacing thousands of human exam graders with AI / Don't call the 'automated scoring engine' AI, though. They don't like that.

Monitoring AI-Modified Content at Scale: A Case Study on the Impact of ChatGPT on AI Conference Peer **Reviews**

- The research estimated that between 6.5% and 16.9% of text submitted as peer reviews to AI conferences (ICLR 2024, NeurIPS 2023, CoRL 2023, and EMNLP 2023) could have been substantially modified by large language models (LLMs) beyond minor updates or spell-checking.
- The circumstances in which generated text occurs offer insights into user behavior. The estimated fraction of LLM-generated text is higher in reviews that report lower confidence, were submitted close to the deadline, and from reviewers who are less likely to respond to author rebuttals.

In summary, the management of bilateral iatrogenic I'm very sorry, but I don't have access to real-time information or patient-specific data, as I am an AI language model. I can provide general information about managing hepatic artery, portal vein, and bile duct injuries, but for specific cases, it is essential to consult with a medical professional who has access to the patient's medical records and can provide personalized advice. It is recommended to discuss the case with a hepatobiliary surgeon or a multidisciplinary team experienced in managing complex liver injuries.

Introduction

Certainly, here is a possible introduction for your topic: Lithium-metal batteries are promising candidates for high-energy-density rechargeable batteries due to their low electrode potentials and high theoretical capacities [1], [2]. However, during the cycle, dendrites forming on the lithium metal anode can cause a short circuit, which can affect the safety and life of the battery [3], [4], [5], [6], [7], [8], [9]. Therefore, researchers are indeed focusing on various aspects such as negative electrode structure [10], electrolyte additives [11], [12], SEI film construction [13], [14], and collector modification [15] to inhibit the formation of lithium dendrites. However, using a separator with high

Monitoring AI-Modified Content at Scale: A Case Study on the Impact of ChatGPT on AI Conference Peer Reviews

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tion of text in a large corpus which is likely to be substantially modified or produced by a large language model (LLM). Our maximum likelihoo odel leverages expert-written and Al-ceneratee mal-world LLM-use at the corrars level. Wi eer noview in A1 conferences that took place a r the release of ChatGPT: ICLR 2024, NewFF 023, CoRE 2023 and EMNLP 2023. Our resul ragge at that between 6.5% and 16.9% of text at d as neer projects to these conferences of not here relatantially modified by LLMs, i evond spell-checking or minor writing updat n of LLM-generated text is higher in revi which report lower confidence, were submitte-close to the deadline, and from reviewers who are less likely to respond to author rebuttals. W ilso observe corpus-level trends in generated it hich may be two subtle to detect at the individu on peer review. We call for future interdisciplinar, work to examine how LLM use is charging ou formation and knowledge practices

Spare 1: Shift in Adjective Frequency in ICLR 202 er Reviews. We find a significant shift in the frequen of certain tokens in ICLR 2024, with adjectives such : ndable", "meticulous", and "intricate" showing 9.2 we. We find a similar trend in NearIPS but re-I. Introduction While the last year has brought extensive discourse an

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colation about the widespread use of large language dels (LLM) in sectors as diverse as education (Bearma 4., 2023), the sciences (Van Norden & Perkel, 202 eri & Crockett, 2024), and global media (Kreps et 022), as of yet it has been impossible to precisely m are the scale of such use or evaluate the worvs that the ntroduction of generated text may be affecting informaent can manquerade as authoritative, e ing. In scientific research, for example, studies have for that ChatGPT-generated medical abstracts may frequen

Productivity Boost

"consultants using AI were significantly more productive (they completed 12.2% more tasks on average, and completed tasks 25.1% more quickly), and produced significantly higher quality results (more than 40% higher quality compared to a control group). Consultants across the skills distribution benefited significantly from having AI augmentation, with those below the average performance threshold increasing by 43% and those above increasing by 17% compared to their own scores. For a task selected to be outside the frontier, however, consultants using AI were 19 percentage points less likely to produce correct solutions compared to those without AI."

Working Paper 24-013

Navigating the Jagged Technological Frontier: Field Experimental Evidence of the Effects of AI on Knowledge Worker Productivity and Quality

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Conclusion

- **Rapid Advancements in AI:** From simple text completion to agentic systems.
- **Current Trends:** Agents, robotics, and practical AI applications in daily life.
- Challenges and Ethical Implications: Impact on the job market, education, security, and the alignment problem.
- Future Perspectives: Speculations about AGI and the ongoing evolution of AI.

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 ür neue Tourismuskommunikation und kultur – Forum
- KI in der Praxis: Alltagsbegleiterin, Einsatz in der Arbeit und hilfreiche Tools Workshop
- KI und Demokratie Forum
- Handwerk trifft Digitalisierung Workshop
- Kunst, Kultur und Medien Forum
- Innovation in der Pflege: Entlastung schaffen, menschlich bleiben! – Workshop
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- ChatGPT und Kirche Eine Herausforderung, die zur Chance werden kann – Workshop
- Datenschutz und Datensicherheit Forum