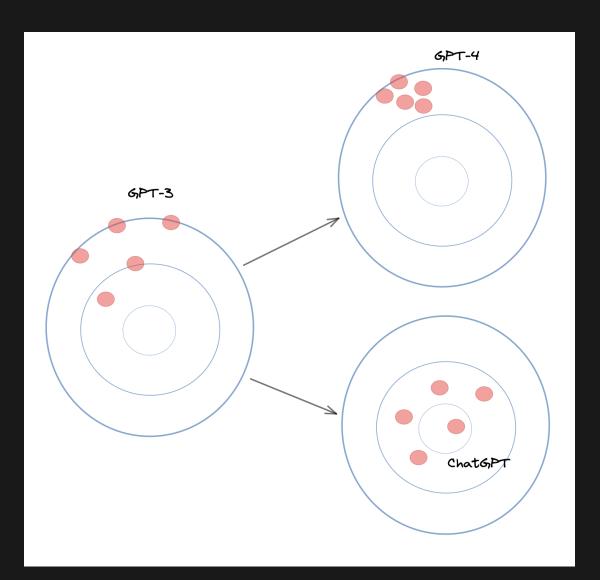
# THE SUCCESS OF CHATGPT

Era of interface adoption

### ALIGNMENT PROBLEM



Making language models bigger does not inherently make them better at following a user's intent. https://arxiv.org/abs/2203.02155

Step 1 Step 2 Step 3 Collect demonstration data Collect comparison data and PROMPT Explain the moon landing to a 6 year old in a few sentences. Optimize a policy against the train a reward model. and train a supervised policy. reward model using the PPO reinforcement learning algorithm. COMPLETION GPT-3 A prompt is A prompt and A new prompt is  $\odot$ 0 Explain the theory of gravity to a 6 year old. sampled from our several mode sampled from Write a story about otters Explain reinforcement Explain reinforcement prompt dataset. outputs are learning to a 6 year old. the dataset learning to a 6 year old. Explain the theory of relativity to a 6 year old in a few sentences. sampled. ß Explain the big bang theory to a 6 year old. The PPO model is A labeler 0 initialized from the Explain evolution to a 6 year old. demonstrates the supervised policy. desired output We give treats and behavior. InstructGPT punishments to teach. People went to the moon, and they took pictures of what they saw, and sent The policy generates Once upon a time... A labeler ranks the an output. them back to the earth so we could all see them. outputs from best SET to worst. D > C > A > B This data is used to The reward model fine-tune GPT-3.5 calculates a reward with supervised 0 for the output. learning. BBB This data is used to train our The reward is used GPT-3 models aren't trained to follow user instructions. Our InstructGPT models (highlighted) reward model. to update the generate much more helpful outputs in response to user instructions. D > C > A > B  $r_{\iota}$ policy using PPO.

The response by ChatGPT is not phrased in order to show any nuance in terms of confidence (this is typical, even if ChatGPT is wrong):

Yes, the two statements are equivalent. They both express the same mathematical idea, but use different notation and formatting conventions. The first statement uses parenthess to enclose the elements of the measure space and regular letters to represent the functions, while the second statement uses subscripted parentheses and uses the LaTeX formatting to represent the elements of the measure space and the function.

The response by Codex [7], another model that we briefly tested (but whose scope would have exceeded that of a single conference article) gives a cautions response and, unlike ChatGPT, is capable of voicing doubt:

I think they are equivalent, but I am not sure.

#### https://arxiv.org/abs/2301.13867

## **READY FROM DAY1**

Does resistance of total wire affect the magnet? And how can I calculate it?

Yes, the resistance of the wire used in the coil can affect the performance of the electromagnet, as it determines the amount of current that can flow through the wire and the amount of heat that is generated. A higher resistance means that less current can flow through the wire, resulting in a weaker magnetic field, and more heat is generated, which can affect the performance and durability of the coil.

To calculate the total resistance of the wire in the coil, you can use the formula:

#### $R = (\rho \times L) / A$

k

where R is the resistance in ohms,  $\rho$  is the resistivity of the wire material in ohm-meters, L is the length of the wire in meters, and A is the cross-sectional area of the wire in square meters.

The resistivity of copper is approximately 1.7 x 10<sup>-8</sup> ohm-meters, which is a constant value for copper wire. The length and cross-sectional area of the wire depend on the specific dimensions and turns of the coil.

For example, if you have a c

G Regenerate response

#### ChatGPT Sprints to One Million Users

Time it took for selected online services to reach one million users



\* one million backers \*\* one million nights booked \*\*\* one million downloads Source: Company announcements via Business Insider/Linkedin

 $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$ 



### **EXPECTATION GAP**

The reason it was boring was because it was made safe.

Big Tech was moving cautiously on AI. Then came ChatGPT.

## **EXPECTATION GAP**

The LaMDA AI platform is presently not accessible to the general public and is only accessible to a select number of AI developers via the AI Test Kitchen.

Google AI's LaMDA Vs OpenAI's ChatGPT

## INTELLECTUAL, CREATIVE TASK

I am writing an email to the NLP paper author because, in the paper, it said the code and data are available on GitHub but it is empty when I navigate to the repo. Can you write one for me?

\$

Certainly! Here's a template for an email you could send to the NLP paper author:

Subject: Request for code and data from [Paper Title]

Dear [Author Name],

I hope this email finds you well. I am a researcher in the field of natural language processing and recently came across your paper titled [Paper Title]. In the paper, it is mentioned that the code and data used in the research are available on GitHub. However, when I navigated to the repository, I found that it is currently empty.

I am very interested in replicating your results and exploring the methodology used in your research. Therefore, I was wondering if you could kindly provide me with the code and data used in the experiments. I understand that you might be busy, but any help you could provide would be greatly appreciated.

Thank you very much for your time, and I look forward to hearing back from you soon.

Best regards, [Your Name]

#### **Email Creation**

## INTELLECTUAL, CREATIVE TASK

ChatGPT has become a viral sensation due in large part to OpenAI's marketing and the uncanny inventiveness of its prose ...

Big Tech was moving cautiously on AI. Then came ChatGPT.

### **MESSAGING INTERFACE**

JAN

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#### MESSAGING

#### We forecast that messaging will add 1.1 Billion new users by 2018

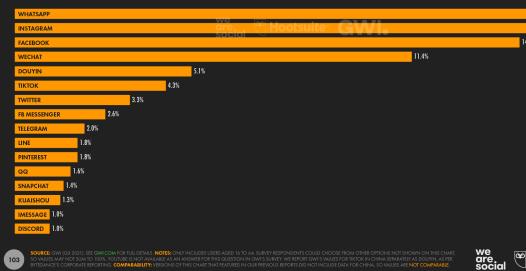
#### Social Media Users Messaging Users 4.0 B 4.0 Internet Users Internet Users 3.6 3.6 B Messaging Users 3.1 (Billions) 2.7 2.4 B 2.5 B Social Media Users Registered Users Messaging Users 2.2 1.8 Social Media Users 1.3 0.9 0.4 0.0 2013 2018E 2012 2014 2015E 2016E 2017E Year



Sources: Activate forecast, GlobalWebIndex, eMarketer, ITO, Activate analysis. Note: Number of monthly active users is lower than number of registered users

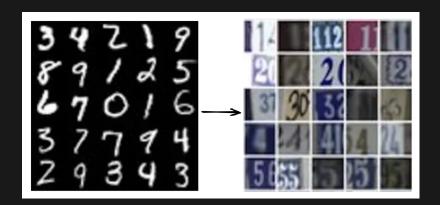
#### **FAVOURITE SOCIAL MEDIA PLATFORMS** 2022

PERCENTAGE OF INTERNET USERS AGED 16 TO 64 WHO SAY THAT EACH OPTION IS THEIR "FAVOURITE" SOCIAL MEDIA PLATFORM

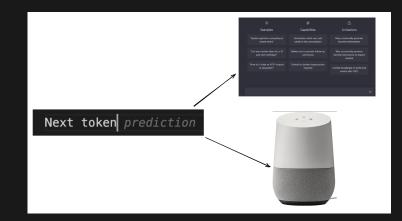


COM FOR FULL DETAILS NOTES:

## **ERA OF INTERFACE ADAPTATION**



#### **Domain Adaptation**



### **Interface Adaptation**

### CONCLUSION

