

## 為什麼有人需要自己的 ChatGPT ?

### Data usage for consumer services FAQ

Commonly asked questions about how we treat user data for OpenAl's non-API consumer services like ChatGPT or DALL-E



Written by Yaniv Markovski. Updated this week

#### Does OpenAl train on my content to improve model performance?

For non-API consumer products like ChatGPT and DALL-F. we may use content such as prompts, responses, uploaded images, and generated images to improve our services. Please refer to this <u>article</u> to understand how this content may be used to improve model performance and how you can opt-out. You can request to opt out of having your content used to improve our services at any time by filling out this <u>form</u>. This opt out will apply on a going-forward basis only.

https://help.openai.com/en/articles/7039943-data-usage-for-consumer-services-faq

## 為什麼有人需要自己的 ChatGPT ?

#### 6. Will you use my conversations for training?

 Yes. Your conversations may be reviewed by our Al trainers to improve our systems.

#### 7. Can you delete my data?

Yes, please follow the <u>data deletion process</u>.

### How can I delete my account?

... it may take up to 4 weeks for your request to be completed.

https://help.openai.com/en/articles/6378407-how-can-i-delete-my-account

#### 8. Can you delete specific prompts?

 No, we are not able to delete specific prompts from your history. Please don't share any sensitive information in your conversations.

https://help.openai.com/en/articles/6783457-what-is-chatgpt

• 需要準備甚麼呢?

現成的 Pre-trained Model

You can fine-tune.



Access to ChatGPT

Self-Instruct https://arxiv.org/abs/2212.10560

以 ChatGPT 為師 **Knowledge Distillation** 請修改以下文句文法錯誤 "I have a dogs." "I have a dog." Model

#### Self-Instruct

https://arxiv.org/abs/2212.10560

### 連問題都是老師想的

任務:請修改以下文句文

法錯誤

輸入: "I have a dogs."

請想出更多可能的輸入



1. "I are good."

2. "You am bad."

3. "I have a apples."

• • • • •

### 連任務都要老師想

任務1:修改以下文句文

法錯誤

任務2:潤飾以下文句

請想出更多任務



任務3:擴寫以下文句

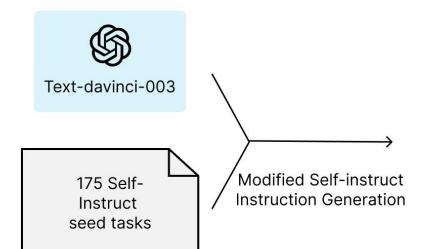
任務4:修改以下文句

• • • • • •

https://github.com/tatsu-lab/stanford\_alpaca

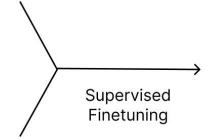






Meta LLaMA 7B

52K Instruction-following examples





Example seed task

Instruction: Brainstorm a list of possible New Year's resolutions.

#### Output:

- Lose weight
- Exercise more
- Eat healthier

Example Generated task

Instruction: Brainstorm creative ideas for designing a conference room.

#### Output:

... incorporating flexible components, such as moveable walls and furniture ...

https://github.com/lm-sys/FastChat



Data

Data

Training

Distributed serving with
FC FastChat

User-shared conversations
(e.g., ShareGPT)

Serving

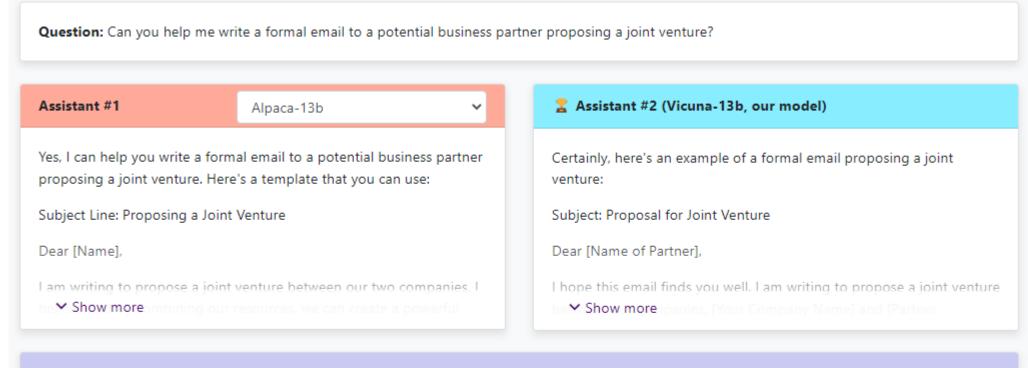
Distributed serving with
FC FastChat

Evaluation

Assess the outputs with Run on any cloud with **SkyPilot GPT-4** 

### GPT-4 Evaluation

According to a fun and non-scientific evaluation with GPT-4. Further rigorous evaluation is needed.



#### GPT-4 Evaluation (Score: Alpaca-13b 9/10, Vicuna-13b 10/10)

Both **Assistant 1** and **Assistant 2** provided helpful, relevant, and accurate responses to the user's request for a formal email proposing a joint venture. **Assistant 1** provided a concise and clear template that can be easily adapted by the user. **Assistant 2**, on the other hand, provided a more detailed and comprehensive email, including specific information about the proposed joint venture, such as the creation of a new company and the sharing of profits and losses. This level of detail may be more useful for the user, as it provides a more complete picture of the proposed partnership. Therefore, **Assistant 1** receives a 9 and **Assistant 2** receives a 10.

Model Name	LLaMA	Alpaca	Vicuna	Bard/ChatGPT	
Dataset	Publicly available datasets (1T token)	Self-instruct from davinci- 003 API (52K samples)	User-shared conversations (70K samples)	N/A	
Training code	N/A	Available	Available	N/A	
Evaluation metrics	Academic benchmark	Author evaluation	GPT-4 assessment	Mixed	
Training cost (7B)	82K GPU-hours	\$500 (data) + \$100 (training)	\$140 (training)	N/A	
Training cost (13B)	135K GPU-hours	N/A	\$300 (training)	N/A	

3 hours on 8 80GB A100s

https://vicuna.lmsys.org/

# Dolly 2.0

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https://docs.google.com/forms/d/e/1FAIpQLSfqNECQn MkycAp2jP4Z9TFX0cGR4uf7b\_fBxjY\_OjhJILlKGA/viewfor m

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Dolly 2.0

	GPT-2	GPT-3	GPT-Neo	OPT	T5	BLOOM	Pythia (ours)
Public Models Public Data	•	•	•	•	•	•	•
Known Training Order Consistent Training Order Number of Checkpoints	1	1	30	• 2	1	8	• • 154
Smallest Model Largest Model Number of Models	124M 1.5B 4	Ada DaVinci 4	125M 20B 6	125M 175B 9	60M 11B 5	560M 176B 5	19M 12B 8

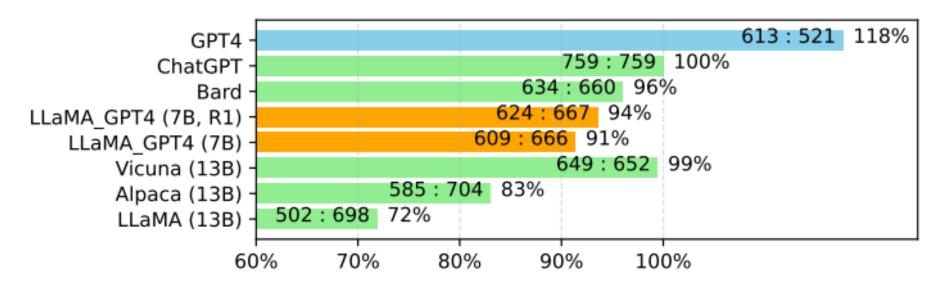
https://arxiv.org/abs/ 2304.01373

databricks-dolly-15k was authored by more than 5,000 Databricks employees during March and April of 2023.

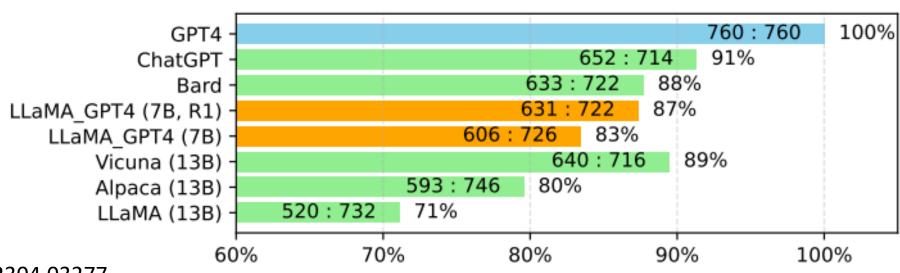
https://www.databricks.com/blog/2023/04/12/dolly-first-open-commercially-viable-instruction-tuned-llm

Model	Backbone	#Params	Open- source model	Open- source data	Claimed language	Post- training (instruction)	Post-training (conversation)	Rele
ChatGPT	-	-	×	×	multi			11/30
Wenxin	-	-	×	×	zh			03/16
ChatGLM	GLM	6B	~	×	en, zh			03/16
Alpaca	LLaMA	7B	<u>~</u>	<u>~</u>	en	52K, en	×	03/13
Dolly	GPT-J	6B	~	~	en	52K, en	×	03/24
BELLE	BLOOMZ	7B	<u>~</u>	<u>~</u>	zh	1.5M, zh	×	03/26
Guanaco	LLaMA	7B	<u>~</u>	<u>~</u>	en, zh, ja, de	534K, multi	×	03/26
Chinese- LLaMA- Alpaca	LLaMA	7/13B	<u>~</u>	<u>~</u>	en, zh	2M/3M, en/zh	×	03/28
LuoTuo	LLaMA	7B	<u>~</u>	~	zh	52K, zh	×	03/31
Vicuna	LLaMA	7/13B	<u>~</u>	<u>~</u>	en	×	70K, multi	03/13
Koala	LLaMA	13B	<u>~</u>	~	en	355K, en	117K, en	04/03
BAIZE	LLaMA	7/13/30B	<u>~</u>	~	en	52K, en	111.5K, en	04/04
Phoenix (Ours)	BLOOMZ	7В	<u>~</u>	<u>~</u>	multi	40+	40+	04/08
Latin Phoenix: Chimera (Ours)	LLaMA	7/13B	<	<u>~</u>	multi (Latin)	Latin	Latin	04/08

https://github.com/FreedomIntellig ence/LLMZoo



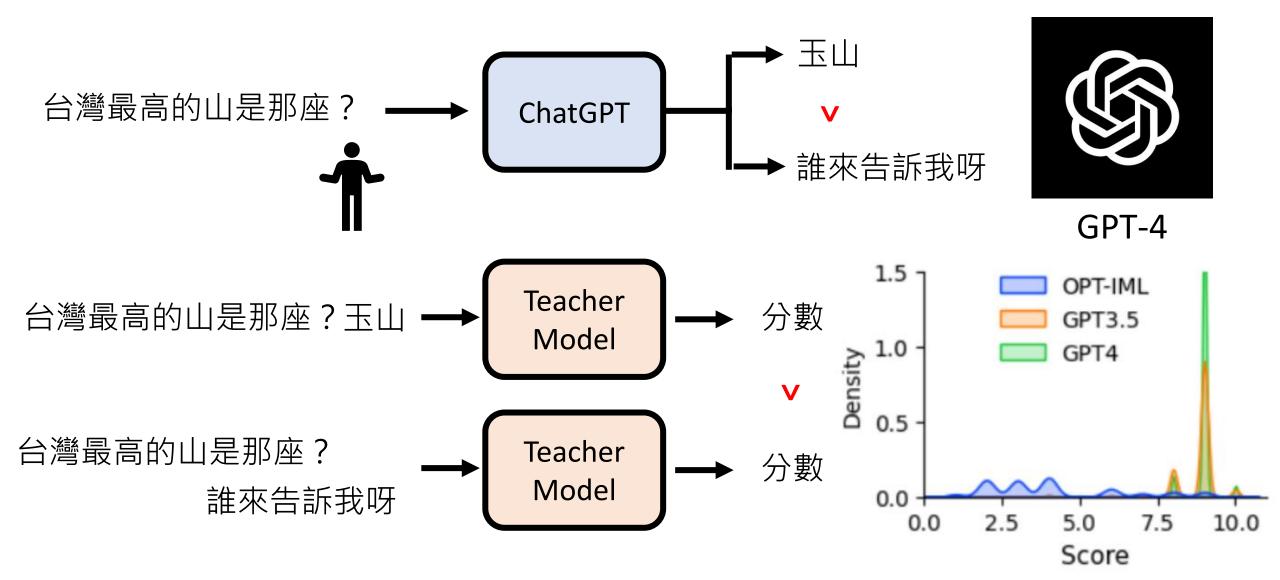
(c) All chatbots against ChatGPT



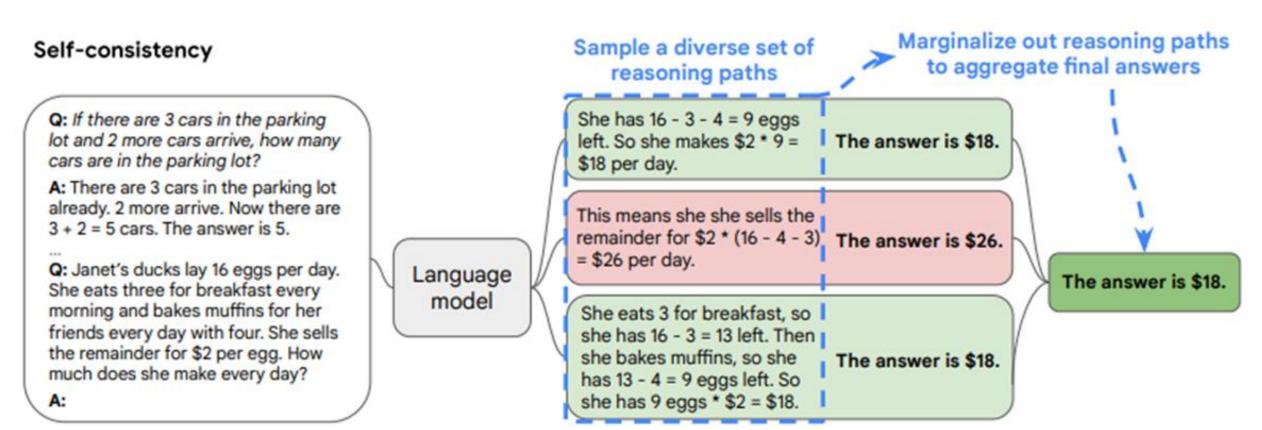
https://arxiv.org/abs/2304.03277

(d) All chatbots against GPT-4

# No Reinforcement Learning?



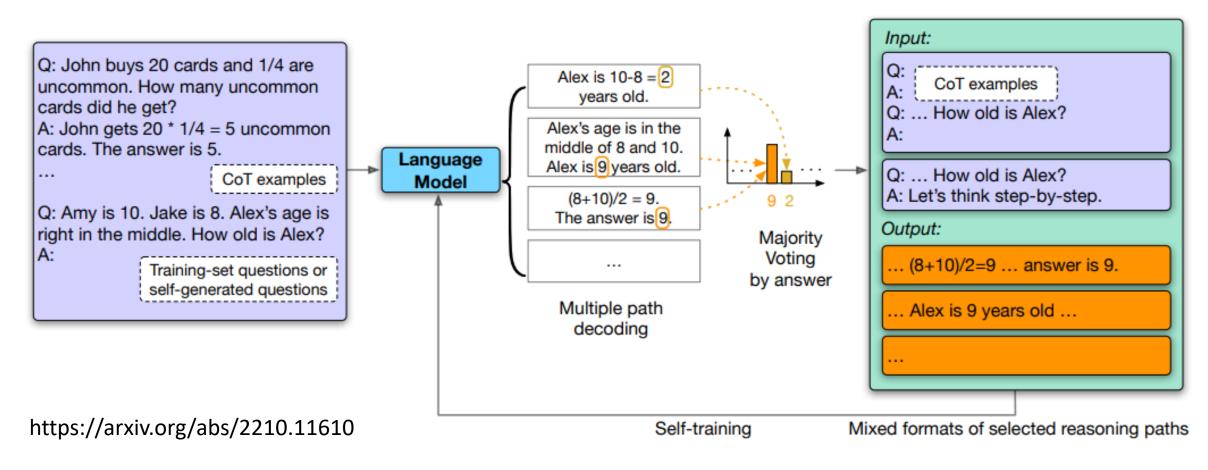
## Large Language Model can Self-improve



Ref: https://arxiv.org/abs/2203.11171

 $56.5\% \rightarrow 74.4\%$  on GSM8K test set

## Large Language Model can Self-improve



 $56.5\% \rightarrow 74.4\% \rightarrow 82.1\%$  on GSM8K test set

