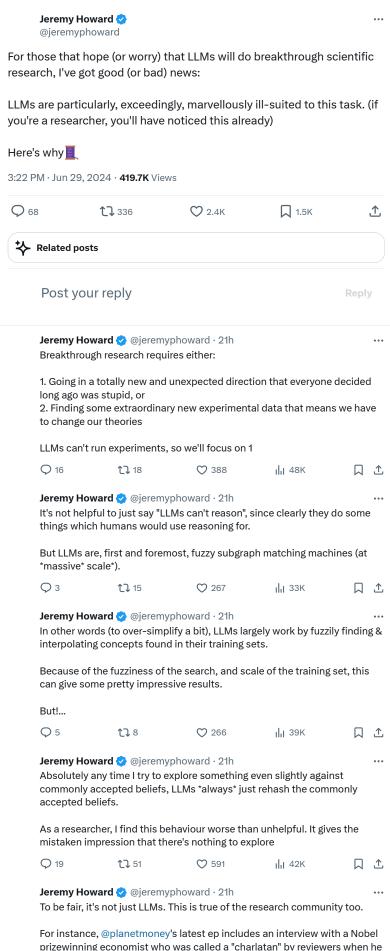


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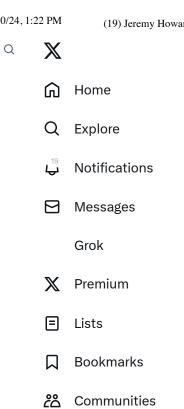
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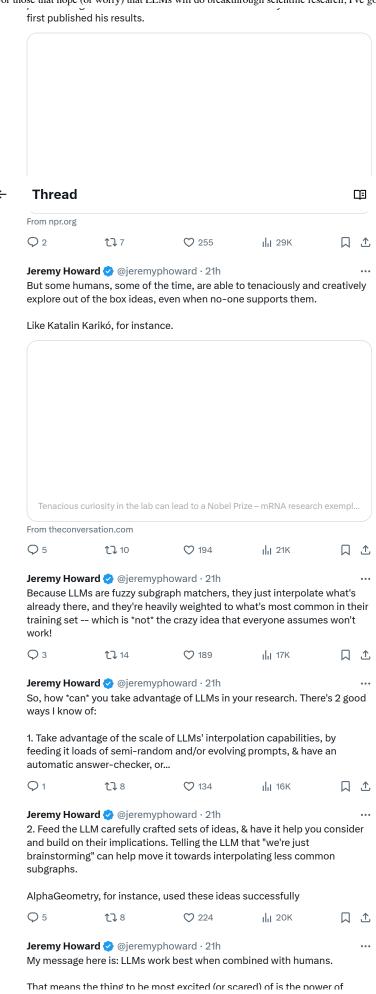


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computers+humans, not just computers on their own

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...which is something Douglas Engelbart pointed out in 1962! dougengelbart.org/pubs/augment-3... **1** 42 ♡ 342 | 1 54K 口 土 Jeremy Howard • @jeremyphoward • 21h PS: Here's Engelbart's conclusions -- that in 1962 we needed an "urgent" plan for human capability augmentation. Maybe we should get onto that? Q 4 11 14 **O** 156 I | 16K 仚 Jeremy Howard 🤡 @jeremyphoward · 21h PPS: Twice I've tenaciously done a thing that all experts told me was dumb 1. Used profit optimisation for insurance pricing, not classic actuarial analysis. I founded a successful company based on the idea, and today everyone uses my approach. Actuaries told me is was stupid Q1 17 3 **(7)** 116 Jeremy Howard ② @jeremyphoward · 21h 2. Trained a general purpose language model on a large generic corpus, and fine-tuned it for downstream tasks. Today it's the standard approach for nearly all NLP, but at the time all my NLP friends told me it definitely wouldn't work so don't bother trying. Q 3 **O** 124 172 ||<sub>|</sub>| 13K Jeremy Howard 🤡 @jeremyphoward · 21h So I do know a bit of what it takes to do breakthrough scientific research -and it's a very very different thing to what LLMs are trained to do!  $\bigcirc$  5 **1** 2 ♥ 83 III 12K 仚 Jeremy Howard 🤡 @jeremyphoward · 16h Just going to highlight some good points in the replies now: Julian Harris @julianharris · 16h Replying to @jeremyphoward I think sometimes people think LLMs are good at creating new ideas because they're new to THEM, but in reality have already been invented by someone else. So often I came up with a cool new idea at Google only to find someone had already come up with it & implemented it as ... Show more O 1 172 **O** 47 III 7.4K Jeremy Howard ② @jeremyphoward · 16h Dan Brickley @danbri · 16h Replying to @jeremyphoward There is notential also in heing an enabler for interdisciplinary research

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- finding non-obvious links between human research in fields that speak different scholarly languages but poke at a common underlying reality. Whether they can go deeper than reading-list-tool, dunno

♡ 31

III 9.5K

III 8.7K

III 7.8K

Jeremy Howard 🤡 @jeremyphoward · 16h

**1** 

**Knut Jägersberg** @JagersbergKnut · 16h Replying to @JagersbergKnut and @jeremyphoward

Another application I see is literature review and synthesis and identifying connections in a semi automated manner. That does not depend on novelty as much as like coming up with a new kind of cure for a disease or creating something one can patent.

Q 2 17 2

Jeremy Howard ♥ @jeremyphoward · 16h

PS: In case it wasn't obvious, by "LLMs" I'm referring to the class of models that goes by that name at present.

♡ 20

Some future model, which might end up getting put into the "LLM" category, could of course have totally different capabilities and constraints.

**(7)** 31

Jeremy Howard ☑ @jeremyphoward · 16h

1 1

For people living in the present (like me, for instance), I think it's useful to understand what these models are good at right now.

(I understand that some people like to make predictions about future capabilities, and that's fine, but it's not what I'm doing.)

**Q** 4

O 1

Q 1

**1**] 2

♡ 36

||₁| 7.4K

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