Review of: "Limitations of and Lessons from the Learning of Large Language Models"

Claudia Pons[1]

1 Universidad Nacional de La Plata

Potential competing interests: No potential competing interests to declare.

The title of the article is too broad. It should be more specific, for example: "Limitations for logical reasoning that can be learned by Large Language Models."

This article is useful because it helps us to think on LLMs' abilities to learn and perform logical reasoning. The article is well written. It also brings up and relates valuable elements that contribute to this analytical thinking.

However, I believe that the hypothesis is not clear.

At times, the hypothesis seems to be that LLMs can learn the reasoning mechanism of intuitionistic logic better than the reasoning mechanism of classical logic.

But elsewhere in the article, the author expresses that such models learned many results from logical reasoning that exist in the training data without the ability to perform the reasoning by themselves.

I personally agree with the latter statement. LLMs are like students who learn by heart.

I suggest detailing and clarifying the analysis on these two different hypotheses.