Comments on "Deep Learning: A critical appraisal"

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The Article

Deep Learning: A Critical Appraisal

Gary Marcus¹ New York University

Limits on the scope of deep learning

Gary lists 10 challenges that current deep learning approaches face. For example:

- Deep learning is data hungry
- Deep learning has not been sufficient transparent
- Deep learning has been difficult to engineer with
- Deep learning has not been capable of distinguish causation from correlation
- Deep learning has struggled with open-ended inference

... and some backslash

Of course there was backslash from deep learning researchers:





Artificial General Intelligence

Marcus arguments that the latest advances in deep learning are still limited to reach the goal of Artificial General Intelligence.

There are several schools of thought for what should be the way of reaching AGI.

The discussion continues

https://arxiv.org/abs/1801.00631 (Deep Learning: A Critical Appraisal)

https://medium.com/@GaryMarcus/in-defense-of-skepticism-about-deep-learning-6e8bfd5ae0f1 (Gary Marcus answer to critics)

https://blog.acolyer.org/

https://analyticsindiamag.com/is-all-the-excitement-around-deep-learning-justified-not-according-to-deep-learnings-biggest-skeptic-gary-marcus/

https://medium.com/syncedreview/gary-marcuss-deep-learning-critique-triggers-backlash-62c137a47836

https://plus.google.com/+YannLeCunPhD/posts/JRnZwMbK7BR (from 2012!)

https://medium.com/intuitionmachine/has-deep-learning-hit-a-wall-ec6a7cc82cb3

https://twitter.com/GaryMarcus/status/948364570120335363

The discussion continues...

