

Review of: "Beyond Traditional Teaching: The Potential of Large Language Models and Chatbots in Graduate Engineering Education"

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Potential competing interests: No potential conflicts

The paper is a timely publication and present the objective in a clear and succinct manner. Right from the distinction between LLMs other applications like sentiment analysis etc and chatbots depicts the clarity of understanding the authors have while dealing with this topic. Fluid mechanics as a case study is clearly presented in the paper with adequate and sound methodology. All the figures are supporting evidences of the findings of the paper.

Examining on the perspectives of whether the findings of this paper may create any ripples - I guess it may be of incremental nature but worthy of application in different areas of science. The study is not as disruptive as one may imagine and we presently need disruptive science to adequately progress in education technology. Some questions that may lead towards disruption is training data and deploying them:

Some data considered irrelevant is not fed - so what shall happen if there may be some relevance or hidden cues of information which may seem unwarranted by a human.

What about deploying this case in chemistry or rather other fields of science? It may not be a straightforward endeavor? Do we have all the data in the open source? As a chemist, we have FAIR data sharing practices in place. What about mechanics course? Some questions that came in my mind while reading this paper that validates the potential of this paper too! I would have loved some discussion on FAIR data practices that education sector needs to follow while performing these studies.

Finally, I liked reading and reviewing this paper and gave me a food for thought on the same.