

## Review of: ""Let's Argue Both Sides": Argument Generation Can Force Small Models to Utilize Previously Inaccessible Reasoning Capabilities"

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Potential competing interests: No potential competing interests to declare.

This paper is very interesting in terms of improving reasoning capability in SLMs. However, several points require further clarification.

- Please clarify the definition of deep reasoning. What type of reasoning is targeted by the proposed method?
- Please define Implicit Assumption. Is it possible to generate an Implicit Assumption? If so, what is the process?
- Need specifics on how to rank arguments. What metrics are used?
- Zero-Shot and CoT are mentioned as comparisons to the proposed method, but comparisons to other methods such as Self-Refine and Multi-Agent Debate are lacking.
- Consideration is needed as to why the proposed method improves performance with SLMs; why is the effect limited with LLMs?
- The proposed method is said to be applicable only when candidate options are explicitly given, but in many real-world applications, candidate options may not be given. What improvements should be made to the proposed method?

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