Responsible NLP Checklist

Paper title: Internal Chain-of-Thought: Empirical Evidence for Layerwise Subtask Scheduling in LLMs Authors: Zhipeng Yang, Junzhuo Li, Siyu Xia, Xuming Hu

How to read the checklist symbols:	
the authors responded 'yes'	
the authors responded 'no'	
the authors indicated that the question does not apply to their work	
the authors did not respond to the checkbox question	
For background on the checklist and guidance provided to the authors, see the Responsible NLP Checklist page at ACL Rolling Review.	

✓ A. Questions mandatory for all submissions.

- ✓ A1. Did you describe the limitations of your work? *This paper has a Limitations section.*
- A2. Did you discuss any potential risks of your work?

 Our results enhance LLMs transparency by showing their capacity to internally plan and execute subtasks, making them safer and more controllable.
- **B.** Did you use or create scientific artifacts? (e.g. code, datasets, models)
 - ☑ B1. Did you cite the creators of artifacts you used? *Section 4*
 - B2. Did you discuss the license or terms for use and/or distribution of any artifacts?

 The open-source models used in this work are widely recognized in the NLP community and are publicly available under standard licenses. Our use aligns with standard academic practices for leveraging open-source tools without redistribution.
 - B3. Did you discuss if your use of existing artifact(s) was consistent with their intended use, provided that it was specified? For the artifacts you create, do you specify intended use and whether that is compatible with the original access conditions (in particular, derivatives of data accessed for research purposes should not be used outside of research contexts)?

 For the open-source models used in this work, their intended purposes (e.g., text generation, inference)
 - B4. Did you discuss the steps taken to check whether the data that was collected/used contains any information that names or uniquely identifies individual people or offensive content, and the steps taken to protect/anonymize it?
 - Our datasets are about common sense knowledge pairs.

align with our application.

■ B5. Did you provide documentation of the artifacts, e.g., coverage of domains, languages, and linguistic phenomena, demographic groups represented, etc.?

The open-source model's documentation is comprehensively detailed in their original publications and repositories.

\checkmark	B6. Did you report relevant statistics like the number of examples, details of train/test/dev splits, etc. for the data that you used/created? <i>Section 4</i>
	C. Did you run computational experiments?
\checkmark	C1. Did you report the number of parameters in the models used, the total computational budget (e.g., GPU hours), and computing infrastructure used? Section 4
V	C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values? Section 4
	C3. Did you report descriptive statistics about your results (e.g., error bars around results, summary statistics from sets of experiments), and is it transparent whether you are reporting the max, mean, etc. or just a single run? Section 4
✓	C4. If you used existing packages (e.g., for preprocessing, for normalization, or for evaluation, such as NLTK, SpaCy, ROUGE, etc.), did you report the implementation, model, and parameter settings used? Section 6
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X	D. Did you use human annotators (e.g., crowdworkers) or research with human subjects?
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N/A	D. Did you use human annotators (e.g., crowdworkers) or research with human subjects? D1. Did you report the full text of instructions given to participants, including e.g., screenshots, disclaimers of any risks to participants or annotators, etc.?
N/A	 D. Did you use human annotators (e.g., crowdworkers) or research with human subjects? D1. Did you report the full text of instructions given to participants, including e.g., screenshots, disclaimers of any risks to participants or annotators, etc.? Our work didn't include participants. D2. Did you report information about how you recruited (e.g., crowdsourcing platform, students) and paid participants, and discuss if such payment is adequate given the participants' demographic (e.g., country of residence)?
	 D. Did you use human annotators (e.g., crowdworkers) or research with human subjects? D1. Did you report the full text of instructions given to participants, including e.g., screenshots, disclaimers of any risks to participants or annotators, etc.? Our work didn't include participants. D2. Did you report information about how you recruited (e.g., crowdsourcing platform, students) and paid participants, and discuss if such payment is adequate given the participants' demographic (e.g., country of residence)? We did't recruit participants. D3. Did you discuss whether and how consent was obtained from people whose data you're using/curating (e.g., did your instructions explain how the data would be used)?
N/A N/A	 D. Did you use human annotators (e.g., crowdworkers) or research with human subjects? D1. Did you report the full text of instructions given to participants, including e.g., screenshots, disclaimers of any risks to participants or annotators, etc.? Our work didn't include participants. D2. Did you report information about how you recruited (e.g., crowdsourcing platform, students) and paid participants, and discuss if such payment is adequate given the participants' demographic (e.g., country of residence)? We did't recruit participants. D3. Did you discuss whether and how consent was obtained from people whose data you're using/curating (e.g., did your instructions explain how the data would be used)? Appendix A D4. Was the data collection protocol approved (or determined exempt) by an ethics review board? This work utilizes publicly available, open-source datasets that were previously collected and released

🔀 E1. If you used AI assistants, did you include information about their use? *AI assistants were used solely for non-substantive tasks*.