

## Responsible NLP Checklist

Paper title: *Reasoning-Aware AIGC Detection via Alignment and Reinforcement*

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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.

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### **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?  
*(left blank)*

### **B. Did you use or create scientific artifacts? (e.g. code, datasets, models)**

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?  
*(left blank)*

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?  
*Yes. Section 2.1 present the overall statistics. Detailed statistics regarding data sources, splits, and model breakdowns are provided in Appendix A.*

### **C. Did you run computational experiments?**

C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?  
*Yes. Section 3.4 lists the experimental setup and hyperparameters, including the backbone model, batch size, learning rate, and sampling temperature.*

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?  
*Yes. Section 4 reports the Accuracy and F1 scores on the test sets. Due to the high computational cost of LLMs, we report the results of the final model on fixed benchmarks.*

### **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.?  
*(left blank)*

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*The Responsible NLP Checklist used at ACL Rolling Review is adopted from NAACL 2022, with the addition of ACL 2023 question on AI writing assistance and further refinements based on ARR practice. ACL 2026 used a subset of ARR checklist form.*

N/A 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)?  
*(left blank)*

N/A 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)?  
*(left blank)*

N/A D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?  
*(left blank)*

**E. Did you use AI assistants (e.g., ChatGPT, Copilot) in your research, coding, or writing?**

E1. If you used AI assistants, did you include information about their use?

*Yes. We explicitly describe the use of LLMs (e.g., GPT-4o, OpenAI o3) for data generation and reward modeling in Section 2, Section 3.4, and Appendix B.*