

Responsible NLP Checklist

Paper title: *LoReFact: Bridging the Logic Gap in Fact-Checking*

Authors: *Qiming Xie, Wenjie Zheng, Xiangqing Shen, Rui Xia*

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?
see Section Ethical Considerations

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?
The data used in this work is collected from publicly available sources and does not contain personally identifying information or offensive content.

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?
see Section 2.3

C. Did you run computational experiments?

C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?
see Section 4 and Appendix A.2

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?
see Section 4.3

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.?
see Section 2

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.

- 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)?

see Section Ethical Considerations.

- 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)?

The data used in this work is collected from publicly available sources, and no additional consent was required.

- D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?

The data used in this work is collected from publicly available sources and does not involve interaction with human subjects; therefore, ethics review board approval was not required.

- 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?

AI assistants were used solely for language polishing and clarity improvement during manuscript preparation. All research design, experiments, analysis, and conclusions were conducted by the authors.