Responsible NLP Checklist

Paper title: MisinfoBench: A Multi-Dimensional Benchmark for Evaluating LLMs Resilience to Misinformation

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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.	

✓ 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?

 Section 7: Ethics Statement discusses ethical considerations, including dataset licensing, misinformation risks, and responsible AI deployment.
- **B.** Did you use or create scientific artifacts? (e.g. code, datasets, models)
 - ☑ B1. Did you cite the creators of artifacts you used?

 Section 3.3 (Dataset Construction) cites the Stack Exchange Data Dump as the source of the dataset.
 - ☑ B2. Did you discuss the license or terms for use and/or distribution of any artifacts? Section 3.3 (Dataset Construction) discusses licensing, stating that the dataset is publicly available under the Creative Commons Attribution-ShareAlike 4.0 license.
 - ☑ 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)?
 - Section 7 (Ethics Statement) specifies that the dataset created in this study is intended solely for research purposes and is not permitted for any other applications. Safeguards have been implemented to prevent potential misuse, ensuring ethical and responsible data usage.
 - ☑ 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?
 - Appendix A.2 (Data Transformation Process) details the removal of personally identifiable information and harmful content through structural cleaning and human review to ensure ethical and safe data usage.
 - B5. Did you provide documentation of the artifacts, e.g., coverage of domains, languages, and linguistic phenomena, demographic groups represented, etc.? (*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? 3.4 Data Statistics **☑** C. Did you run computational experiments? 2 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 (Experimental) and Appendix D (Model Details) provide comprehensive documentation of model parameters and computing infrastructure specifications used in this study. 2 C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values? Section 4.1 (Experimental Setup) describes the complete experimental configuration used in this study. 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? Section 4 (Experiments) presents the experimental results with detailed statistical analysis 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? (left blank) **D.** Did you use human annotators (e.g., crowdworkers) or research with human subjects? 2 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) 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)? Section B.1 contains the complete annotation guidelines provided to all participants for identifying misleading content. 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) D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?

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

D5. Did you report the basic demographic and geographic characteristics of the annotator population

E1. If you used AI assistants, did you include information about their use? *No AI tools were used in the research or writing of this paper.*

that is the source of the data?

(left blank)