Responsible NLP Checklist

Paper title: Persona-Augmented Benchmarking: Evaluating LLMs Across Diverse Writing Styles Authors: Kimberly Truong, Riccardo Fogliato, Hoda Heidari, Steven Wu

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?

 There are no serious risks resulting from our work that are not already mentioned (and discouraged) in our limitations section.
- **B.** Did you use or create scientific artifacts? (e.g. code, datasets, models)
- ☑ B1. Did you cite the creators of artifacts you used?

 We used PersonaHub (section 3) for our base personas and three benchmark datasets(section 4):

 CoQA, CosmosQA, and DS-1000.
- B2. Did you discuss the license or terms for use and/or distribution of any artifacts?

 We use the PersonaHub dataset (cited in sections 2,3) and several benchmark datasets which are cited throughout the paper, with the first mention in section 1.
- 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)?

 The datasets were public with no restrictions on usage for research and evaluation.
- ☑ 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?
 - This data was publicly available. When manually reviewing the data, we saw no names or unique identifiers that were not celebrities (from the PersonaHub dataset).
- ☑ B5. Did you provide documentation of the artifacts, e.g., coverage of domains, languages, and linguistic phenomena, demographic groups represented, etc.?

 In section 4, we provide a brief overview of all benchmarks used and what task they are used for.
- 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? *Section 4 under "Benchmarks.*

☑ C. Did you run computational experiments?

- ✓ C1. Did you report the number of parameters in the models used, the total computational budget (e.g., GPU hours), and computing infrastructure used?

 Appendix E.1
- C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?
 - Section 3 describes our full methodology. Exact experimental setting is covered in Section 4 with some references to the Appendix.
- 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 5 with our experiments contain error bars and outliers. We take the average across all performance metrics which should be specified in Section 3. We also specify standard error where appropriate.
- ☑ 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?

Appendix F reports using SpaCy.

\(\begin{aligned} \D.\) 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*)
- 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)
- 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? (left blank)
- D5. Did you report the basic demographic and geographic characteristics of the annotator population that is the source of the data?

 (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?

Our whole paper looks into using persona-based LLM prompting. We report in detail all models used and their exact usage (section 3).