Responsible NLP Checklist

Paper title: PricingLogic: Evaluating LLMs Reasoning on Complex Tourism Pricing Tasks
Authors: Yunuo Liu, Dawei Zhu, Zena Al-Khalili, Dai Cheng, Yanjun Chen, Dietrich Klakow, Wei Zhang,
Xiaoyu Shen

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Н	low 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
p	For background on the checklist and guidance provided to the authors, see the Responsible NLP Checklist age 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)
 - B1. Did you cite the creators of artifacts you used?

 We cite all creators of artifacts used in our research in the References section. While our PricingLogic benchmark is a new dataset we created, we utilized existing language models (GPT-40, DeepSeek-V3/R1, Qwen2.5-7B/32B/Max) for evaluation, which are properly cited in Sections 4.1 and 4.2, with full references provided (OpenAI, 2024; DeepSeek-AI et al., 2025a,b; Qwen et al., 2025). We also cite the Transformers library (Wolf et al., 2020) used for model implementation in Section 4 and Appendix C
 - B2. Did you discuss the license or terms for use and/or distribution of any artifacts? (*left blank*)
 - ☑ 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)?
 - We discuss the intended use of our PricingLogic dataset in Section 2, particularly in Section 2.1 where we describe the collection and organization of tourism products and discount policies.
 - 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)
 - 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? We discuss the statistics for data in Section 2 **☑** 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? We discuss Model Size And Budget in Section 4 and Appendix. 2 C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values? We discuss Experimental Setup And Hyperparameters in in Section 4 and Appendix. X 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? (left blank) 2 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? We describe all packages and tools used in our experiments in Section 4.1 (Experimental Setups) and Section C (Computing Infra) in the Appendix. **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)

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? (left blank)

that is the source of the data?

(left blank)