Responsible NLP Checklist

Paper title: RAVEN: Query-Guided Representation Alignment for Question Answering over Audio, Video, Embedded Sensors, and Natural Language

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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 Repage at ACL Rolling Review.	esponsible NLP Checklist

- ✓ 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? We provide potential risks of our work in section 10.
- **B.** Did you use or create scientific artifacts? (e.g. code, datasets, models)
 - ☑ B1. Did you cite the creators of artifacts you used?

 We provide the citations for the use of artifacts in Appendix C, section 9 and all appropriate places.
 - B2. Did you discuss the license or terms for use and/or distribution of any artifacts? We provide the license information for the use of artifacts in Appendix C and section 9.
 - ☑ 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 provide the license information for the use of artifacts in Appendix C and section 9.

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?

Data used in this research are publicly available under open-source licensing.

- ☑ B5. Did you provide documentation of the artifacts, e.g., coverage of domains, languages, and linguistic phenomena, demographic groups represented, etc.?

 Documentations of the dataset are provided in Appendix C, and Appendix F.
- ☑ 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 provide details of dataset statistics Appendix E, and Appendix F

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.

\checkmark	C.	Did	vou	run	com	putational	l experiments	?
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- ✓ 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 provide detail gpu hours, computational resources used in this research in Appendix H
- ✓ C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?
 - We provide the hyperparameters and experimental setup in appendix E
- ∠ 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?
 - Due to the expensive computational cost of retraining a MLLMs for several iterations, we chose not to include error bars.
- 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?

- 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.?

 Details of instruction given to the participants are described in Appendix B
- 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)?

Details of recruitment are described in Appendix B

- 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)?

 We did not collect any data from human subjects. All data are from open-source dataset and are used for research purpose only.
- D4. Was the data collection protocol approved (or determined exempt) by an ethics review board? *This paper does not involve crowdsourcing nor research with human subjects.*
- ☑ D5. Did you report the basic demographic and geographic characteristics of the annotator population that is the source of the data?

 Details of annotators are described in Appendix B

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? (left blank)