

## Responsible NLP Checklist

Paper title: *MECH: A Cost-Effective Multi-Task Cascade Framework for Classroom Opinion Evolution Recognition*

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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.

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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?

*We discuss ethical considerations and potential impacts in the "Ethical Considerations" section*

### 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?

*As stated in the "Ethical Considerations" section, our newly annotated data does not contain any Personally Identifiable Information (PII) and adheres to the original licensing agreements of the TalkMoves project.*

- 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?

*Detailed dataset statistics, including training/validation/test splits and label distribution, are provided in Section 3.2 and illustrated in Figure 2.*

### C. Did you run computational experiments?

- C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?

*The experimental setup is described in Section 5.3. Comprehensive hyperparameter settings are provided in Table 5 within Appendix B.1.*

- 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?

*Experimental results and hypothesis verification are reported in Section 6.1 and Section 6.2*

*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.*

**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.?

*The annotation guidelines and representative examples provided to the annotators are detailed in Appendix A.*

- 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)?

*We recruited three students with educational psychology backgrounds. They were compensated at a rate consistent with local standards for research assistants. See Section 3.2.*

- 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 COED dataset is based on the publicly available TalkMoves corpus. Consent was obtained by the original data collectors, and our re-annotation adheres to its terms of use (see Ethical Considerations).*

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

*Our research involves secondary analysis of a publicly available dataset (TalkMoves) and does not involve new human subject intervention, which is exempt from IRB approval.*

**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 for language polishing and grammar correction of the manuscript. The final content was reviewed and edited by the authors.*