

## Responsible NLP Checklist

Paper title: *LANTERN in the Event Stream: Training-Free Temporal Knowledge Graph Forecasting by Balancing Inertia and Shifts*

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How to read the checklist symbols:

- the authors responded 'yes'
- the authors responded 'no'
- N/A 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?

*This work is fundamental research on temporal knowledge graph forecasting using public, anonymized political event benchmarks (ICEWS, GDELT). No sensitive data, user data, or deployable systems are involved. The method has no direct malicious applications or ethical risks.*

### 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?

*We only use publicly available, de-identified event datasets (ICEWS, GDELT) which contain no personally identifiable information (PII) or offensive content. No additional data collection was performed.*

- 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?

*Dataset statistics, train/validation/test splits are reported in Section 4.1 and Appendix C (Table 9).*

### C. Did you run computational experiments?

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

*Experimental setup, hyperparameters, and implementation details are provided in Section 3, Section 4.1, and Appendix C (Table 11).*

- 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?

*Quantitative results (MRR, Hits@k) with statistical significance tests are reported in Section 4.2 and Section 4.3.*

*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.?

*No human annotators, human subjects, or data collection from humans were involved in this work.*

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)?

*No human annotators, human subjects, or data collection from humans were involved in this work.*

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)?

*No human annotators, human subjects, or data collection from humans were involved in this work.*

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

*No human annotators, human subjects, or data collection from humans were involved in this work.*

**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?

*No AI assistants were used in research, coding, or manuscript writing.*