

Responsible NLP Checklist

Paper title: *Temporal Flattening in LLM-Generated Text: Comparing Human and LLM Writing Trajectories*

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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.

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?

No. The paper analyzes publicly available English-language text (academic abstracts, blogs, and news) and synthetic text generated by large language models. It does not involve human subjects experimentation, private or sensitive personal data, user interaction, deployment of NLP systems, or normative or policy claims. Therefore, no additional ethical elaboration is required.

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?

No. The paper uses publicly available text datasets and synthetic LLM-generated data. While standard preprocessing steps are applied for analysis (e.g., normalization and anonymized author identifiers), the paper does not explicitly discuss procedures for screening or redacting personally identifying information or offensive content, as this was not a focus of the study.

- 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 3

C. Did you run computational experiments?

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

Section 4

- 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

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 study does not involve human participants or annotators. All analyses are conducted on publicly available text corpora and synthetic LLM-generated data, and no instructions were given to participants.

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)?

The study does not involve human participants or annotators. All analyses are conducted on publicly available text corpora and synthetic LLM-generated data, and therefore no recruitment or payment procedures apply. D3 Data Consent: No

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 study analyzes publicly available text corpora and synthetic LLM-generated data. It does not involve direct data collection from individuals, interaction with participants, or the curation of new personal data, and therefore does not include a discussion of consent procedures.

D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?
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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 only for limited support such as code debugging and minor language polishing. We did not used to generate data, conduct experiments, analyze results, or write substantive scientific content.