

## Responsible NLP Checklist

Paper title: *Breaking Block Boundaries: Anchor-based History-stable Decoding for Diffusion Large Language Models*

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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?

*Our work only proposes a training-free decoding strategy to improve inference efficiency of existing dLLMs, without introducing new data, or sensitive application domains. We therefore did not identify substantial new ethical or social risks beyond those already present in the base models and benchmarks.*

### 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 existing publicly available benchmark datasets and do not collect or release any new data.*

- 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?

*Details such as dataset size can be verified through the cited references. The data usage is described in detail in Section 4.1 and Appendix B.*

### C. Did you run computational experiments?

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

*Section 4.1 and Appendix B*

- 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?

*We report single-run results following common practice in prior work on dLLM decoding, and do not provide additional descriptive statistics such as error bars or mean/variance over multiple runs. For reproducibility, we use greedy decoding so that the results remain identical across runs.*

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*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.?

*Our work does not involve any human subjects or annotators.*

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)?

*Our work does not involve any human subjects or annotator studies; we only use existing publicly available datasets and automatic evaluation. Therefore, recruitment and payment of participants are not applicable.*

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 only use publicly available datasets that do not involve direct interaction with human subjects.*

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

*Our work does not involve any new data collection or human-subject experiments, and only uses existing publicly available datasets. Therefore, ethics review board approval is not applicable.*

**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?

*Appendix G*