

## Responsible NLP Checklist

Paper title: *SPIDE: Serial and Parallel Intertwined Speculative Decoding*

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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.*

- N/A* A2. Did you discuss any potential risks of your work?

*(left blank)*

### B. Did you use or create scientific artifacts? (e.g. code, datasets, models)

- N/A* 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?

*(left blank)*

- 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?

*Please refer to Section 4 (Experiments) and Section 4.1 (Datasets and Evaluation Setup) of the camera-ready paper, where we report detailed statistics of the datasets used, including the number of examples, data splits, and evaluation protocols.*

### C. Did you run computational experiments?

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

*Please refer to Section 4 and Appendix of the camera-ready paper, where we detail the experimental environment, hyperparameter search strategy (e.g., grid search for speculative step size), and the best-found hyperparameter values for the SPIDE method.*

- 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?

*Please refer to Section 4 (Experimental Results) of the camera-ready paper, where we report descriptive statistics (mean latency, accuracy, and standard deviation) across multiple independent runs, and clarify that all reported results are average values with standard deviations for transparency.*

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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.?

*(left blank)*

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)?

*(left blank)*

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)?

*(left blank)*

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

*(left blank)*

**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?

*We used AI assistants (e.g., ChatGPT, GitHub Copilot) for the following purposes: 1. Proofreading and language polishing of the manuscript; 2. Assisting with code debugging and optimization during algorithm implementation; 3. Generating draft figures and tables for experimental results. All AI-generated content has been thoroughly reviewed, revised, and verified by all authors, and the final work is the original intellectual output of the authors.*