

Responsible NLP Checklist

Paper title: *Beyond Quantity: Trajectory Diversity Scaling for Code Agents*

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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?

Section Ethical Considerations

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?

Section Ethical Considerations

- 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?

Section4 Experiments

C. Did you run computational experiments?

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

Section4 Experiments

- 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?

Section4 Experiments

D. Did you use human annotators (e.g., crowdworkers) or research with human subjects?

- ^{N/A} 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.?

Not applicable. Our work does not involve human participants, annotators, or user studies. All experiments are conducted using publicly available benchmarks and synthetically generated data. No informed consent forms, risk disclosures, or participant instructions were required.

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.

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)?

Not applicable. Our work does not involve human participants, annotators, or user studies. All experiments are conducted using publicly available benchmarks and synthetically generated data. No informed consent forms, risk disclosures, or participant instructions were required.

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)?

Not applicable. Our work does not involve human participants, annotators, or user studies. All experiments are conducted using publicly available benchmarks and synthetically generated data. No informed consent forms, risk disclosures, or participant instructions were required.

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

Not applicable. Our work does not involve human participants, annotators, or user studies. All experiments are conducted using publicly available benchmarks and synthetically generated data. No informed consent forms, risk disclosures, or participant instructions were required.

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?

Yes. We used large language models (e.g., ChatGPT, Claude) to assist with grammar checking, sentence restructuring, and clarity improvements during the writing process. All final content was reviewed, edited, and approved by the authors. No AI-generated text was included without human oversight. The use of AI tools did not influence the scientific claims, experimental results, or conclusions of this work.