

Responsible NLP Checklist

Paper title: *DFAMS: Dynamic-flow guided Federated Alignment based Multi-prototype Search*

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How to read the checklist symbols:

- the authors responded 'yes'
- the authors responded 'no'
- 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?

(left blank)

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 verified that all datasets used in this study do not contain any personally identifiable information or offensive content. The ethical considerations and data handling procedures are described in 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?

We reported detailed dataset statistics, including the number of samples and train/test splits, in Section 4.1 (Datasets) and provided additional construction and sampling details in Appendix D (Dataset Construction and Sampling Strategies).

C. Did you run computational experiments?

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

We described the experimental setup and analyzed the impact of key hyperparameters in Section 4.4 (Sensitivity Analysis). Additional details on hyperparameter tuning, including the effect of learning rate, are provided in Appendix K (Effect of Learning Rate).

- 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?

Unfortunately, we were unable to report descriptive statistics because only a single run was conducted for each experiment, given the limited computational resources and the substantial inference cost of the end-to-end QA evaluations.

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?
Information regarding the use of AI assistants, including large language models employed during experimentation and manuscript preparation, is described in Appendix M (The Use of Large Language Models).