

Responsible NLP Checklist

Paper title: *FalconCopilot: Empowering LLMs Towards Integrated Human-Machine Systems for Aviation Autonomy*

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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?

This work is strictly confined to a commercial simulation environment and does not involve real-world physical deployment.

☒ 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?

The data collection was performed on a single shared device/simulator setup. No individual user metadata, personal usernames, or hardware IDs were recorded, as all participants operated the same machine. The resulting data is inherently anonymous and consists solely of simulation telemetry.

☒ 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. Experiment 4

☒ C. Did you run computational experiments?

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

Our experiment setup is quite standard and do not rely on specific hyperparameters. As such, although some standard modules such as RAG indeed contain hyperparameters, we do not provide a discussion to save space. These standard modules will be released in our opensource code. C3 Descriptive Statistics: Yes

☒ 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. Experiment 4

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.?

Appendix. G

- ☒ 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 participants are full-time researchers or graduate students within the authors' laboratory who receive regular stipends/salaries. The participation was voluntary and considered part of standard academic research activities, rather than outsourced labor.

- ☒ 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)?

Participants were explicitly informed about the purpose of the data collection and how the data would be processed prior to the experiment. Verbal consent was obtained from all participants. Since the study involved internal lab members, details of the consent process were not elaborated in the main text.

- ☐ N/A 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?

Only use AI for translation and polishing.