

## Responsible NLP Checklist

Paper title: *Bridging Attribution and Open-Set Detection using Graph-Augmented Instance Learning in Synthetic Speech*

Authors: *Mohd Mujtaba Akhtar, Girish, Farhan Sheth, Muskaan Singh*

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?

*Potential risks are discussed in Section 7 (Ethical Statement), including misuse of detection tools, deployment without safeguards, and misuse in high-stakes scenarios.*

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

- B1. Did you cite the creators of artifacts you used?

*All datasets, pretrained models, and tools are cited in Sections 24 and the References.*

- B2. Did you discuss the license or terms for use and/or distribution of any artifacts?

*All datasets and pretrained models are used under their original research licenses. Licensing terms are governed by the original providers and are not restated.*

- B3. Did you discuss if your use of existing artifact(s) was consistent with their intended use, provided that it was specified? For the artifacts you create, do you specify intended use and whether that is compatible with the original access conditions (in particular, derivatives of data accessed for research purposes should not be used outside of research contexts)?

*All artifacts are used strictly for research and evaluation, consistent with their intended use, as discussed in Sections 24 and the Ethical Statement.*

- 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?

*All datasets are publicly available and contain no personally identifiable or sensitive information, as stated in Section 7 (Ethical Statement).*

- B5. Did you provide documentation of the artifacts, e.g., coverage of domains, languages, and linguistic phenomena, demographic groups represented, etc.?

*Dataset composition, generator types, and evaluation settings are documented in Section 4.1 and Table descriptions.*

---

*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.*

- 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?  
*Dataset sizes, train/dev/test splits, and ID/OOD evaluation protocols are reported in Section 4.1.*

**C. Did you run computational experiments?**

- C1. Did you report the number of parameters in the models used, the total computational budget (e.g., GPU hours), and computing infrastructure used?  
*Model sizes and parameter counts are reported in Section 2, and training setup and hardware are described in Section 4.1.*
- C2. Did you discuss the experimental setup, including hyperparameter search and best-found hyperparameter values?  
*Training details, optimizer settings, batch size, learning rate, and early stopping are described in Section 4.1.*
- 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?  
*Results are reported across DEV, TEST, and ID/OOD splits using ACC, F1, and EER, with comparisons across multiple models and datasets (Sections 4.24.4).*
- C4. If you used existing packages (e.g., for preprocessing, for normalization, or for evaluation, such as NLTK, SpaCy, ROUGE, etc.), did you report the implementation, model, and parameter settings used?  
*All preprocessing and model implementations rely on standard libraries and pretrained models described in Sections 2 and 4.*

**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.?  
*No human subjects or annotators were involved.*
- 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)?  
*No participant recruitment or compensation was involved.*
- 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)?  
*All datasets are publicly available and released with appropriate consent by the original creators.*
- D4. Was the data collection protocol approved (or determined exempt) by an ethics review board?  
*No new data collection involving human subjects was conducted.*
- D5. Did you report the basic demographic and geographic characteristics of the annotator population that is the source of the data?  
*No annotators were involved in this study.*

**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?  
*No AI assistants were used.*