

with different levels. Therefore, we are currently expanding CEFR-SP to make it parallel through the manual rewriting of sentences in the corpus. Our sentence-level assessment model helps this process. We can complement sentences of scarce levels by adding additional rewriting tasks.

We suspect that the proposed method is directly applicable to other label-imbalanced classification problems. The empirical investigation of this is out of the scope of the present paper and is left for future work.

Ethics Statement

Ethics in Annotation Process The sentences in CEFR-SP were sampled from Newsela-Auto (news articles), Wiki-Auto (Wikipedia articles), and SCoRE (sentences written for an educational application of an academic project). We believe them to be free from harmful content that insults annotators.

We contracted with a commercial company that provides data annotation services for academia, including the management of annotators. We paid annotators \$0.50 per sentence, *i.e.*, approximately \$44/h. This was significantly higher than the minimum wage in the place where this study was conducted, reflecting our respect for the expertise required.

License Compliance We comply with the licenses of the original data sources of CEFR-SP. Specifically, we separate CEFR-SP sentences by data source and distribute them with the same license as the original datasets from which they were sampled.

Wiki-Auto CC BY-SA 3.0

SCoRE CC BY-NC-SA 4.0

Newsela-Auto We ask people first to obtain Newsela corpus (<https://newsela.com/data/>) and then contact us, following the distribution policy of Newsela-Auto.

For the reproducibility of the study, the training-, validation-, and test-set splits are maintained.

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