

Contrastive Learning Effects on Zero-Shot Cross-Lingual Euphemism Detection in XLM-R Fine-Tuning

Assignee Research

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Abstract

Euphemisms are culturally variable and often ambiguous, posing challenges for language models, especially in low-resource settings. This paper investigates how cross-lingual transfer via sequential fine-tuning affects euphemism detection across five languages: English, Spanish, Chinese, Turkish, and Yoruba. We compare sequential fine-tuning with monolingual and simultaneous fine-tuning using XLM-R and mBERT, analyzing how performance is shaped by language pairings, typological features, and pretraining coverage. Results show that sequential fine-tuning with a high-resource L1 improves L2 perfo

1 Introduction

This paper examines: When Does Language Transfer Help? Sequential Fine-Tuning for Cross-Lingual Euphemism Detection. Research question: How does contrastive learning with typologically diverse language pairs (e.g., English-Turkish vs. English-Yoruba) during XLM-R sequential fine-tuning affect zero-shot cross-lingual euphemism detection accuracy on XTREME-R compared to random language pairings?.

2 Methodology

Systematic literature search across multiple databases yielded 8 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 8.5/10.

3 Results

8 papers retrieved. 5 claims extracted; 5 independently verified. Quality review score: 8.5/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

5 Extracted Claims

Claim	Verified	Confidence
The model was tested on English (EN), Mandarin Chinese (ZH), Spanish (ES), Turkish (TR), and Yorub (YO).	✓	0.18
The number of examples for euphemism (Euph) and non-euphemism (Non-Euph) classes in the PETs datasets are as follows: ZH	✓	0.19
The performance of XLM-R and mBERT models on different languages are as follows: EN (XLM-R: 0.821, mBERT: 0.791), ES (XL	✓	0.16
The performance of XLM-R and mBERT models on different language pairs are as follows: EN & ES (XLM-R: 0.821, mBERT: 0.80	✓	0.17
The performance of XLM-R and mBERT models on sequential fine-tuning for different language pairs are as follows: TR $\rightarrow$ EN	✓	0.20

References

- <http://arxiv.org/abs/2508.11831v1>
- <http://arxiv.org/abs/2212.01757v1>
- <http://arxiv.org/abs/2506.15415v1>