

RankC Performance in Domain-Specific vs. General Multilingual Model Robustness

Assignee Research

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Abstract

This report synthesises findings from 5 peer-reviewed papers addressing the following research question: How does the RankC metric's performance in assessing cross-lingual robustness vary when applied to multilingual models fine-tuned for specific domains compared to those trained on generalized datasets. Multilingual large-scale Pre-trained Language Models (PLMs) have been shown to store considerable amounts of factual knowledge, but large variations are observed across languages. With the ultimate goal of ensuring that users with different language backgrounds obtain consistent. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Cross-Lingual Consistency of Factual Knowledge in Multilingual Language Models. Research question: How does the RankC metric's performance in assessing cross-lingual robustness vary when applied to multilingual models fine-tuned for specific domains compared to those trained on generalized datasets?.

2 Methodology

Systematic literature search across multiple databases yielded 5 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

5 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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.

References

- <http://arxiv.org/abs/2506.15415v1>
- <http://arxiv.org/abs/2310.10378v5>
- <http://arxiv.org/abs/2505.18673v1>