ERNIE-Code Multilingual Pretraining Enhances Robustness in Low-Resource Programming Languages

Assignee Research

June 5, 2026

Abstract

This report synthesises findings from 8 peer-reviewed papers addressing the following research question: Does multilingual pretraining in ERNIE-Code improve robustness against syntactic variations in low-resource programming languages compared to English-centric models on the HumanEval-X benchmark. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: ERNIE-Code: Beyond English-Centric Cross-lingual Pretraining for Programming Languages. Research question: Does multilingual pretraining in ERNIE-Code improve robustness against syntactic variations in low-resource programming languages compared to English-centric models on the HumanEval-X benchmark?.

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 4.0/10.

3 Results

8 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.0/10.

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/1402.0087v1
- http://arxiv.org/abs/2212.06742v2
- http://arxiv.org/abs/2012.08743v2