

Contrastive Loss Margin Tuning in CodeT5 for Robustness Against Identifier Renaming Attacks

Assignee Research

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Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: Does increasing the contrastive loss margin in CodeT5 improve its resilience against semantic-preserving identifier renaming attacks on the MBXP benchmark without degrading clean input accuracy. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Let Invariant Rationale Discovery Inspire Graph Contrastive Learning. Research question: Does increasing the contrastive loss margin in CodeT5 improve its resilience against semantic-preserving identifier renaming attacks on the MBXP benchmark without degrading clean input accuracy?.

2 Methodology

Systematic literature search across multiple databases yielded 16 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.7/10.

3 Results

16 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.7/10.

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/2210.00008v2>
- <http://arxiv.org/abs/2206.07869v1>
- <http://arxiv.org/abs/2009.14776v2>