

Adversarial Robustness of CodeT5+ and CodeT5 on HumanEval Under Code Perturbations

Assignee Research

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Abstract

This report synthesises findings from 7 peer-reviewed papers addressing the following research question: How does the adversarial robustness of CodeT5+ compare to its predecessor CodeT5 when evaluated on the HumanEval benchmark with exact match accuracy under adversarial code perturbations. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: CodeT5+: Open Code Large Language Models for Code Understanding and Generation. Research question: How does the adversarial robustness of CodeT5+ compare to its predecessor CodeT5 when evaluated on the HumanEval benchmark with exact match accuracy under adversarial code perturbations?.

2 Methodology

Systematic literature search across multiple databases yielded 7 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.0/10.

3 Results

7 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.0/10.

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/2410.12381v3>
- <http://arxiv.org/abs/2305.07922v2>
- <http://arxiv.org/abs/2007.08428v4>