Adversarial Docstring Perturbations and Zero-Shot Code Generation in CodeT5 and JaCoText

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Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does adversarial perturbation of docstrings impact the zero-shot code generation accuracy of CodeT5 versus JaCoText on the MBPP benchmark across Python and JavaScript. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: A Deep Dive into Adversarial Robustness in Zero-Shot Learning. Research question: How does adversarial perturbation of docstrings impact the zero-shot code generation accuracy of CodeT5 versus JaCoText on the MBPP benchmark across Python and JavaScript?.

2 Methodology

Systematic literature search across multiple databases yielded 13 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.0/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.0/10.

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/2008.07651v1
- http://arxiv.org/abs/2403.03788v1
- http://arxiv.org/abs/2404.14700v4