Adversarial Robustness of JaCoText Explanations Across Programming Languages

Assignee Research

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How does the adversarial robustness of JaCoText's explanations vary across different programming languages when evaluated using the BLEU score for explanation consistency. 6 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 2.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Comparative Studies of 10 Programming Languages within 10 Diverse Criteria – a Team 7 COMP6411-S10 Term Report. Research question: How does the adversarial robustness of JaCoText's explanations vary across different programming languages when evaluated using the BLEU score for explanation consistency?.

2 Methodology

Systematic literature search across multiple databases yielded 11 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 2.5/10.

3 Results

11 papers retrieved. 6 claims extracted; 0 independently verified. Quality review score: 2.5/10.

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.

5 Extracted Claims

Claim	Verified	Confidence
AspectJ can be used in combination with other frameworks like Spring for building web applications.	×	0.07
Web Services can be seen as distributed distant programs that communicate together via HTTP.	×	0.02
A distributed system is a collection of independent computers that appears to its users as a single coherent system.	×	0.00
Issues in distributed systems include communication, fault tolerance, synchronization, and security.	×	0.02
AOP (Aspect-Oriented Programming) can reduce distributed systems' complexity and improve their efficiency by modularizin	×	0.03
A group of aspects can be added to an existing system with a main task to observe the system's pipeline.	×	0.03

References

- `http://arxiv.org/abs/2008.07651v1`
- `http://arxiv.org/abs/2404.18533v3`
- `http://arxiv.org/abs/1009.0305v1`