

Multimodal Data Integration Enhances JaCoText Accuracy in Java Code Generation

Assignee Research

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Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: How does the integration of multimodal data (e.g., flowcharts, UML diagrams) with JaCoText affect its accuracy in generating Java code from ambiguous natural language instructions, as measured by the. 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 Comprehensive Review of State-of-The-Art Methods for Java Code Generation from Natural Language Text. Research question: How does the integration of multimodal data (e.g., flowcharts, UML diagrams) with JaCoText affect its accuracy in generating Java code from ambiguous natural language instructions, as measured by the BLEU score on adversarial examples in the ConCode dataset?.

2 Methodology

Systematic literature search across multiple databases yielded 14 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

14 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/2505.00693v3>
- <http://arxiv.org/abs/2303.12869v1>
- <http://arxiv.org/abs/2306.06371v1>