

Progressive Problem-Solving Prompts Boost JaCoText Pass@k Accuracy on HumanEval and MBPP

Assignee Research

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Abstract

This report synthesises findings from 10 peer-reviewed papers addressing the following research question: What is the impact of progressive problem-solving prompts (self-invoking code generation) on the pass@k accuracy of JaCoText across HumanEval and MBPP benchmarks compared to standard single-step. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.3/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: HumanEval Pro and MBPP Pro: Evaluating Large Language Models on Self-invoking Code Generation. Research question: What is the impact of progressive problem-solving prompts (self-invoking code generation) on the pass@k accuracy of JaCoText across HumanEval and MBPP benchmarks compared to standard single-step prompting?.

2 Methodology

Systematic literature search across multiple databases yielded 10 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.3/10.

3 Results

10 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.3/10.

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/2401.10065v3>
- <http://arxiv.org/abs/2410.12381v3>
- <http://arxiv.org/abs/2412.21199v2>