

# Type Hints and Docstrings Enhance Code Generation Performance Across Model Scales

Assignee Research

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## Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: Does the performance improvement from including type hints and docstrings in training data scale with model size for code generation tasks on MBPP Pro. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.3/10. 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: Does the performance improvement from including type hints and docstrings in training data scale with model size for code generation tasks on MBPP Pro?.

## 2 Methodology

Systematic literature search across multiple databases yielded 12 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.3/10.

## 3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.3/10.

## 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/2410.21676v4>
- <http://arxiv.org/abs/2603.08655v1>
- <http://arxiv.org/abs/2412.21199v2>