CodeT5 Pretraining Domain Specificity and Pass@k Performance on MBPP with Low-Resource Samples

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June 7, 2026

Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: How does the pretraining domain specificity of CodeT5 affect its pass@k performance when fine-tuned on MBPP with varying numbers of low-resource language samples, and what is the optimal sample size. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: MELTR: Meta Loss Transformer for Learning to Fine-tune Video Foundation Models. Research question: How does the pretraining domain specificity of CodeT5 affect its pass@k performance when fine-tuned on MBPP with varying numbers of low-resource language samples, and what is the optimal sample size trade-off?.

2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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.

References

- http://arxiv.org/abs/2303.13009v1
- http://arxiv.org/abs/2102.03983v1
- http://arxiv.org/abs/2504.15610v3