Dataset Distillation Scaling and Adversarial Robustness in CodeT5 on DD-RobustBench

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How does the scaling of dataset distillation (e.g., increasing the size of the distilled dataset while maintaining compression ratio) affect the adversarial robustness of CodeT5 on DD-RobustBench. 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: DD-RobustBench: An Adversarial Robustness Benchmark for Dataset Distillation. Research question: How does the scaling of dataset distillation (e.g., increasing the size of the distilled dataset while maintaining compression ratio) affect the adversarial robustness of CodeT5 on DD-RobustBench under different attack strengths?.

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 6.5/10.

3 Results

11 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/2403.13322v3
- http://arxiv.org/abs/2404.17732v1
- http://arxiv.org/abs/2306.07713v3