

CausalMixFT Robustness to Adversarial Perturbations in Tabular Data Fine-Tuning

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: How does CausalMixFT's robustness to adversarial perturbations compare to traditional fine-tuning methods when evaluated on adversarially perturbed tabular datasets (e.g., Adult Census with. 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: Improving the Robustness of Large Language Models for Code Tasks via Fine-tuning with Perturbed Data. Research question: How does CausalMixFT's robustness to adversarial perturbations compare to traditional fine-tuning methods when evaluated on adversarially perturbed tabular datasets (e.g., Adult Census with gradient-based attacks), measured by accuracy degradation under different perturbation strengths?.

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/2601.04110v2>
- <http://arxiv.org/abs/2602.11411v1>
- <http://arxiv.org/abs/2110.06500v2>