

Pretraining Tabular Foundation Models on Synthetic Adversarial Data and Zero-Shot Transfer Performance

Assignee Research

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Abstract

This report synthesises findings from 11 peer-reviewed papers addressing the following research question: How does pretraining tabular foundation models on synthetic adversarial data affect their zero-shot transfer accuracy on out-of-distribution tabular benchmarks compared to models trained on. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Zero-shot Meta-learning for Tabular Prediction Tasks with Adversarially Pre-trained Transformer. Research question: How does pretraining tabular foundation models on synthetic adversarial data affect their zero-shot transfer accuracy on out-of-distribution tabular benchmarks compared to models trained on real-world data?.

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 3.0/10.

3 Results

11 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.0/10.

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/2502.14523v1>
- <http://arxiv.org/abs/2502.04573v2>
- <http://arxiv.org/abs/2512.03307v1>