

Multimodal Tabular Foundation Models Outperform Unimodal Models Under Adversarial Noise on TabMNAR

Assignee Research

June 8, 2026

Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How do multimodal tabular foundation models (e.g., integrating text and numerical data) perform compared to unimodal models on TabMNAR with adversarial noise, measured by robust accuracy and fairness. 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: Multimodal Adversarial Defense for Vision-Language Models by Leveraging One-To-Many Relationships. Research question: How do multimodal tabular foundation models (e.g., integrating text and numerical data) perform compared to unimodal models on TabMNAR with adversarial noise, measured by robust accuracy and fairness across different noise distributions?.

2 Methodology

Systematic literature search across multiple databases yielded 13 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

13 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/2207.01168v1>
- <http://arxiv.org/abs/2405.18770v6>
- <http://arxiv.org/abs/1909.08072v2>