

# Fine-Tuning Tabular Foundation Models and Their Robustness to Adversarial Noise

Assignee Research

June 9, 2026

## Abstract

This report synthesises findings from 16 peer-reviewed papers addressing the following research question: What is the impact of fine-tuning tabular foundation models on different domain-specific datasets on their robustness against adversarial noise in TabMNAR, as measured by changes in F1-score under. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: On Adversarial Robustness: A Neural Architecture Search perspective. Research question: What is the impact of fine-tuning tabular foundation models on different domain-specific datasets on their robustness against adversarial noise in TabMNAR, as measured by changes in F1-score under varying noise intensities?.

## 2 Methodology

Systematic literature search across multiple databases yielded 16 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.7/10.

## 3 Results

16 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.7/10.

## 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/2206.13405v2>
- <http://arxiv.org/abs/2110.06513v2>
- <http://arxiv.org/abs/2007.08428v4>