

# Distribution Shifts in Categorical Features and Flow-Matching Reconstruction Error in Tabular Data

Assignee Research

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## Abstract

This report synthesises findings from 4 peer-reviewed papers addressing the following research question: What is the impact of distribution shifts in categorical features on the reconstruction error of flow-matching tabular models, and can adaptive normalization techniques improve robustness 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 6.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: Diffusion and Flow Matching Models for Tabular Data: A Survey. Research question: What is the impact of distribution shifts in categorical features on the reconstruction error of flow-matching tabular models, and can adaptive normalization techniques improve robustness on benchmarks like HIGGS or CreditG?.

## 2 Methodology

Systematic literature search across multiple databases yielded 4 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.2/10.

## 3 Results

4 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.2/10.

## 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/1710.05833v2>
- <http://arxiv.org/abs/2307.05284v6>
- <http://arxiv.org/abs/2502.17119v2>