

Generative AI-Augmented Tabular Data for Robust Multimodal Classification Under Distribution Shifts

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: How does the integration of generative AI-based tabular data augmentation affect the accuracy of multimodal classifiers on OpenML-CC18 datasets when evaluated under controlled distribution shifts,. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.2/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Generative Classifiers Avoid Shortcut Solutions. Research question: How does the integration of generative AI-based tabular data augmentation affect the accuracy of multimodal classifiers on OpenML-CC18 datasets when evaluated under controlled distribution shifts, compared to traditional augmentation techniques?.

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 4.2/10.

3 Results

12 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.2/10.

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/2207.05796v1>
- <http://arxiv.org/abs/2512.25034v1>
- <http://arxiv.org/abs/2402.02316v4>