Multimodal Models with Soft-Labeled Synthetic Data Improve Task Success in CALVIN Benchmark

Assignee Research

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Abstract

This report synthesises findings from 13 peer-reviewed papers addressing the following research question: How does the integration of multimodal models with soft-labeled synthetic data affect task success rates in the CALVIN benchmark compared to text-only approaches, when evaluated using preference. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Enhancing clinical decision support with physiological waveforms – a multimodal benchmark in emergency care. Research question: How does the integration of multimodal models with soft-labeled synthetic data affect task success rates in the CALVIN benchmark compared to text-only approaches, when evaluated using preference alignment scores and human-in-the-loop validation?.

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 3.7/10.

3 Results

13 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 3.7/10.

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/2008.13369v1
- http://arxiv.org/abs/2407.17856v4
- http://arxiv.org/abs/2503.14504v2