

Video Domain Shifts and Hallucination Rates in InternLM-V2 and Gemini 1.5 Pro

Assignee Research

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Abstract

This report synthesises findings from 12 peer-reviewed papers addressing the following research question: What is the impact of video domain shifts, such as from lectures to documentaries, on the hallucination rates of InternLM-V2 compared to Gemini 1.5 Pro when evaluated using generative metrics instead. 10 claims were extracted from source literature; 4 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.4/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Evaluating Generative Models for Tabular Data: Novel Metrics and Benchmarking. Research question: What is the impact of video domain shifts, such as from lectures to documentaries, on the hallucination rates of InternLM-V2 compared to Gemini 1.5 Pro when evaluated using generative metrics instead of accuracy?.

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 5.4/10.

3 Results

12 papers retrieved. 10 claims extracted; 4 independently verified. Quality review score: 5.4/10.

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.

5 Extracted Claims

Claim	Verified	Confidence
FAED effectively captures generative modeling issues overlooked by existing metrics.	✓	0.29
FPCAD exhibits promising performance but requires further refinements to enhance its reliability.	✓	0.17
FAED successfully detects all synthesized problems (Quality Decrease, Mode Drop, and Mode Collapse) in the experimental	×	0.11
Existing metrics (SDV Fidelity, Utility, TSTR, and TRTS) fail to identify key issues in generative modeling for tabular	✓	0.21
FAED, FPCAD, and RFIS are novel evaluation metrics tailored for assessing generative models in tabular data, inspired by	✓	0.30
Existing evaluation principles from the image domain can be effectively adapted for tabular data.	×	0.13
SDV Fidelity, Utility, TSTR, and TRTS exhibit limitations in detecting key generative modeling challenges.	×	0.12
FAED, FPCAD, and RFIS are systematically assessed for their reliability in capturing Quality Decrease, Mode Drop, and Mo	×	0.08
TSTR (Train on Synthetic, Test on Real) is useful for detecting cases where synthetic data only partially represents rea	×	0.03
TRTS (Train on Real, Test on Synthetic) assesses whether synthetic samples introduce patterns absent in real data.	×	0.03

References

- <http://arxiv.org/abs/2409.11353v3>
- <http://arxiv.org/abs/2506.22486v1>
- <http://arxiv.org/abs/2504.20900v1>