

Past-Token vs. Next-Token Prediction in Long-Context Robotic Policy Learning

Assignee Research

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Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: How does the past-token prediction objective compare to next-token prediction in terms of long-context policy learning efficiency as measured by training throughput and convergence speed on robotic. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 6.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Next Token Prediction Towards Multimodal Intelligence: A Comprehensive Survey. Research question: How does the past-token prediction objective compare to next-token prediction in terms of long-context policy learning efficiency as measured by training throughput and convergence speed on robotic control tasks?.

2 Methodology

Systematic literature search across multiple databases yielded 15 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 6.5/10.

3 Results

15 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 6.5/10.

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/2412.18619v2>
- <http://arxiv.org/abs/2103.13842v1>
- <http://arxiv.org/abs/2405.13218v2>