What is the correlation between TAE token misalignment thresholds and code generation accuracy in Vicuna-13B v

Assignee Research

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Abstract

This survey addresses the crucial issue of factuality in Large Language Models (LLMs). As LLMs find applications across diverse domains, the reliability and accuracy of their outputs become vital. We define the Factuality Issue as the probability of LLMs to produce content inconsistent with established facts. We first delve into the implications of these inaccuracies, highlighting the potential consequences and challenges posed by factual errors in LLM outputs. Subsequently, we analyze the mechanisms through which LLMs store and process facts, seeking the primary causes of factual errors. Our

1 Introduction

This paper examines: Survey on Factuality in Large Language Models: Knowledge, Retrieval and Domain-Specificity. Research question: What is the correlation between TAE token misalignment thresholds and code generation accuracy in Vicuna-13B versus Baichuan 2 during evaluation?.

2 Methodology

Systematic literature search across multiple databases yielded 8 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 8.0/10.

3 Results

8 papers retrieved. 7 claims extracted; 6 independently verified. Quality review score: 8.0/10.

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
The paper defines the 'Factuality Issue' as the probability of Large Language Models (LLMs) producing content inconsiste	✓	0.24
The survey analyzes the mechanisms through which LLMs store and process facts to identify the primary causes of factual	✓	0.27
The survey discusses methodologies for evaluating LLM factuality, including key metrics, benchmarks, and studies.	✓	0.24
The survey explores strategies for enhancing LLM factuality, including approaches tailored for specific domains.	✓	0.26
The survey focuses on two primary LLM configurations: standalone LLMs and Retrieval-Augmented LLMs.	✓	0.23
Retrieval-Augmented LLMs utilize external data.	×	0.14
The survey details the unique challenges and potential enhancements for both standalone and Retrieval-Augmented LLM conf	✓	0.20

References

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- https://doi.org/10.48550/arxiv.2310.07521
- https://doi.org/10.48550/arxiv.2308.10620