View Meta-Reviews

Paper ID   279

Paper Title   Task Complexity Matters: An Empirical Study of Reasoning in LLMs for Sentiment Analysis

Track Name   Special Track on LLMs for Data Science

META-REVIEW QUESTIONS

1. Meta-review

This paper presents a large-scale empirical study on the effectiveness of reasoning-enhanced LLMs for sentiment analysis tasks with varying levels of complexity. Through 504 configurations across seven model families, the authors show that reasoning is not universally beneficial: it often degrades performance on simpler sentiment tasks while providing gains only for more complex emotion recognition settings, at a significant computational cost.

Reviewers consistently praise the scale, rigor, and clarity of the experimental design, as well as the careful comparison between reasoning and non-reasoning models and the inclusion of efficiency and Pareto frontier analyses. The work offers a timely and important empirical correction to common assumptions about LLM reasoning, with clear practical relevance.

Concerns mainly relate to the limited task scope, the lack of deeper theoretical explanation for observed failure modes, and the absence of new modeling techniques. While valid, these limitations do not undermine the value of the contribution as a rigorous empirical analysis within its stated scope.

Overall, the paper makes a solid and well-supported empirical contribution suitable for the special track.