Mistral-Contriever Benchmark Performance Across Reasoning Mathematics Coding and Language Tasks

Assignee Research

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Abstract

This report synthesises findings from 15 peer-reviewed papers addressing the following research question: What are the benchmark performance scores of Mistral-Contriever on reasoning mathematics coding and language understanding tasks. 18 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.0/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: MR-GSM8K: A Meta-Reasoning Benchmark for Large Language Model Evaluation. Research question: What are the benchmark performance scores of Mistral-Contriever on reasoning mathematics coding and language understanding 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 4.0/10.

3 Results

15 papers retrieved. 18 claims extracted; 0 independently verified. Quality review score: 4.0/10.

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 MR-Score metric consists of three sub-metrics: Matthews Correlation Coefficient (MCC), accuracy of the first-error-s	×	0.02
The MCC score ranges from -1 to +1, where -1 indicates total disagreement between prediction and observation, 0 suggests	×	0.03
The evaluated models include Qwen-v1.5-1.8B, Llama3-70B, Deepseek-v2-236B, WizardMath-v1.1-7B, MAmmoTH-70B, DeepseekMath	×	0.06
Each model was evaluated under a zero-shot setting and a few-shot setting with a temperature of zero.	×	0.06
The MR-Score for Qwen-1.8B under zero-shot setting is 0.1.	×	0.04
The MR-Score for Phi3-3.8B under zero-shot setting is 22.9.	×	0.04
The MR-Score for Deepseek-Math-7B-RL under zero-shot setting is 11.6.	×	0.04
The MR-Score for WizardMath-v1.1-7B under zero-shot setting is 0.2.	×	0.04
The MR-Score for Llama3-8B under zero-shot setting is 17.2.	×	0.04
The MR-Score for MAmmoTH-70B under zero-shot setting is 5.0.	×	0.05
The MR-Score for MetaMath-70B under zero-shot setting is 0.0.	×	0.05
The MR-Score for Llama3-70B under zero-shot setting is 38.3.	×	0.04
The MR-Score for Qwen1.5-72B under zero-shot setting is 20.9.	×	0.04
The MR-Score for Deepseek-v2-236B under zero-shot setting is 29.8.	×	0.06
The MR-Score for Claude3-Haiku under zero-shot setting is 15.3.	×	0.04
The MR-Score for GPT-3.5-Turbo under zero-shot setting is 22.6.	×	0.06
The MR-Score for Claude3-Sonnet under zero-shot setting is 23.5.	×	0.06
The MR-Score for GPT-4-Turbo under zero-shot setting is 50.5.	×	0.05

References

- http://arxiv.org/abs/2210.09261v1
- http://arxiv.org/abs/2312.17080v4
- http://arxiv.org/abs/2503.20786v1