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@article{cobbe2021gsm8k,

title={Training Verifiers to Solve Math Word Problems},

author={Cobbe, Karl and Kosaraju, Vineet and Bavarian, Mohammad and Chen, Mark and Jun, Heewoo and Kaiser, Lukasz and Plappert, Matthias and Tworek, Jerry and Hilton, Jacob and Nakano, Reiichiro and Hesse, Christopher and Schulman, John},

journal={arXiv preprint arXiv:2110.14168},

year={2021}

}

### 2.Math

Copyright (c) 2021 Dan Hendrycks

@article{hendrycksmath2021,

title={Measuring Mathematical Problem Solving With the MATH Dataset},

author={Dan Hendrycks and Collin Burns and Saurav Kadavath and Akul Arora and Steven Basart and Eric Tang and Dawn Song and Jacob Steinhardt},

journal={NeurIPS},

year={2021}

}

### 3.MMLU

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```
@article{hendryckstest2021,  
  title={Measuring Massive Multitask Language Understanding},  
  author={Dan Hendrycks and Collin Burns and Steven Basart and Andy Zou and  
Mantas Mazeika and Dawn Song and Jacob Steinhardt},  
  journal={Proceedings of the International Conference on Learning Representations  
(ICLR)},  
  year={2021}  
}
```

```
@article{hendrycks2021ethics,  
  title={Aligning AI With Shared Human Values},  
  author={Dan Hendrycks and Collin Burns and Steven Basart and Andrew Critch and  
Jerry Li and Dawn Song and Jacob Steinhardt},  
  journal={Proceedings of the International Conference on Learning Representations  
(ICLR)},  
  year={2021}  
}
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### 4.BBH

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```
@article{suzgun2022challenging,  
  title={Challenging BIG-Bench Tasks and Whether Chain-of-Thought Can Solve  
Them},
```

```
author={Suzgun, Mirac and Scales, Nathan and Sch{\'a}rli, Nathanael and Gehrmann,
Sebastian and Tay, Yi and Chung, Hyung Won and Chowdhery, Aakanksha and Le,
Quoc V and Chi, Ed H and Zhou, Denny and and Wei, Jason},
journal={arXiv preprint arXiv:2210.09261},
year={2022}
}
```

## 5.HellaSwag

Copyright (c) 2019 Rowan Zellers

```
@misc{zellers2019hellaswag,
title={HellaSwag: Can a Machine Really Finish Your Sentence?},
author={Rowan Zellers and Ari Holtzman and Yonatan Bisk and Ali Farhadi and
Yejin Choi},
year={2019},
eprint={1905.07830},
archivePrefix={arXiv},
primaryClass={cs.CL}
}
```

## 6.XSum

Copyright (c) 2018 Shashi Narayan

```
@misc{narayan2018dont,
title={Don't Give Me the Details, Just the Summary! Topic-Aware Convolutional
Neural Networks for Extreme Summarization},
author={Shashi Narayan and Shay B. Cohen and Mirella Lapata},
year={2018},
}
```

```
eprint={1808.08745},  
archivePrefix={arXiv},  
primaryClass={cs.CL}  
}
```

7.AGIEval-GaoKao, SAT

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8.AGIEval-LSAT

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```
@misc{zhong2021arlsat,  
  title={AR-LSAT: Investigating Analytical Reasoning of Text},  
  author={Wanjun Zhong and Siyuan Wang and Duyu Tang and Zenan Xu and  
Daya Guo and Jiahai Wang and Jian Yin and Ming Zhou and Nan Duan},  
  year={2021},  
  eprint={2104.06598},  
  archivePrefix={arXiv},  
  primaryClass={cs.CL}  
}
```

```
@article{wang2022lsat,  
  title={From lsat: The progress and challenges of complex reasoning},  
  author={Wang, Siyuan and Liu, Zhongkun and Zhong, Wanjun and Zhou, Ming and  
Wei, Zhongyu and Chen, Zhumin and Duan, Nan},  
  journal={IEEE/ACM Transactions on Audio, Speech, and Language Processing},  
  year={2022},
```

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publisher={IEEE}  
}
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9.human-eval

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```
@article{chen2021codex,
```

```
title={Evaluating Large Language Models Trained on Code},
```

```
author={Mark Chen and Jerry Tworek and Heewoo Jun and Qiming Yuan and  
Henrique Ponde de Oliveira Pinto and Jared Kaplan and Harri Edwards and Yuri Burda  
and Nicholas Joseph and Greg Brockman and Alex Ray and Raul Puri and Gretchen  
Krueger and Michael Petrov and Heidy Khlaaf and Girish Sastry and Pamela Mishkin and  
Brooke Chan and Scott Gray and Nick Ryder and Mikhail Pavlov and Alethea Power and  
Lukasz Kaiser and Mohammad Bavarian and Clemens Winter and Philippe Tillet and  
Felipe Petroski Such and Dave Cummings and Matthias Plappert and Fotios Chantzis  
and Elizabeth Barnes and Ariel Herbert-Voss and William Hebgen Guss and Alex Nichol  
and Alex Paino and Nikolas Tezak and Jie Tang and Igor Babuschkin and Suchir Balaji  
and Shantanu Jain and William Saunders and Christopher Hesse and Andrew N. Carr  
and Jan Leike and Josh Achiam and Vedant Misra and Evan Morikawa and Alec Radford  
and Matthew Knight and Miles Brundage and Mira Murati and Katie Mayer and Peter  
Welinder and Bob McGrew and Dario Amodei and Sam McCandlish and Ilya Sutskever  
and Wojciech Zaremba},
```

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year={2021},
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eprint={2107.03374},
```

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archivePrefix={arXiv},
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primaryClass={cs.LG}
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}
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@article{chen2023t,

title={T-Eval: Evaluating the Tool Utilization Capability Step by Step},

author={Chen, Zehui and Du, Weihua and Zhang, Wenwei and Liu, Kuikun and Liu, Jiangning and Zheng, Miao and Zhuo, Jingming and Zhang, Songyang and Lin, Dahua and Chen, Kai and others},

journal={arXiv preprint arXiv:2312.14033},

year={2023}

}

## 2.TyDiQA

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@article{tydiqa,

title = {TyDi QA: A Benchmark for Information-Seeking Question Answering in  
Typologically Diverse Languages},

author = {Jonathan H. Clark and Eunsol Choi and Michael Collins and Dan Garrette  
and Tom Kwiatkowski and Vitaly Nikolaev and Jennimaria Palomaki}

year = {2020},

journal = {Transactions of the Association for Computational Linguistics}

}

## 3.MathBench

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@misc{liu2024mathbench,

title={MathBench: Evaluating the Theory and Application Proficiency of LLMs  
with a Hierarchical Mathematics Benchmark},

author={Hongwei Liu and Zilong Zheng and Yuxuan Qiao and Haodong Duan  
and Zhiwei Fei and Fengzhe Zhou and Wenwei Zhang and Songyang Zhang and Dahua  
Lin and Kai Chen},

year={2024},

eprint={2405.12209},

archivePrefix={arXiv},

primaryClass={cs.CL}

}

4.math-qa

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@inproceedings{amini-etal-2019-mathqa,

title = "{M}ath{QA}: Towards Interpretable Math Word Problem Solving with Operation-Based Formalisms",

author = "Amini, Aida and

Gabriel, Saadia and

Lin, Shanchuan and

Koncel-Kedziorski, Rik and

Choi, Yejin and

Hajishirzi, Hannaneh",

booktitle = "Proceedings of the 2019 Conference of the North {A}merican Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long and Short Papers)",

month = jun,

year = "2019",

address = "Minneapolis, Minnesota",

publisher = "Association for Computational Linguistics",

url = "https://aclanthology.org/N19-1245",

doi = "10.18653/v1/N19-1245",

pages = "2357--2367",

}

5.AQuA

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@inproceedings{Zhang2023EvaluatingTP,

title={Evaluating the Performance of Large Language Models on GAOKAO  
Benchmark},

author={Xiaotian Zhang and Chunyang Li and Yi Zong and Zhengyu Ying and Liang  
He and Xipeng Qiu},

year={2023}

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[https://huggingface.co/datasets/allenai/ai2\\_arc](https://huggingface.co/datasets/allenai/ai2_arc)

@misc{clark2018think,

title={Think you have Solved Question Answering? Try ARC, the AI2 Reasoning Challenge},

author={Peter Clark and Isaac Cowhey and Oren Etzioni and Tushar Khot and Ashish Sabharwal and Carissa Schoenick and Oyvind Tafjord},

year={2018},

eprint={1803.05457},

archivePrefix={arXiv},

primaryClass={cs.AI}

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### 2.ARC-E

[https://huggingface.co/datasets/allenai/ai2\\_arc](https://huggingface.co/datasets/allenai/ai2_arc)

@misc{clark2018think,

title={Think you have Solved Question Answering? Try ARC, the AI2 Reasoning

Challenge},

author={Peter Clark and Isaac Cowhey and Oren Etzioni and Tushar Khot and  
Ashish Sabharwal and Carissa Schoenick and Oyvind Tafjord},

year={2018},

eprint={1803.05457},

archivePrefix={arXiv},

primaryClass={cs.AI}

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#### 1. MBPP

<https://github.com/google-research/google-research/tree/master/mbpp>

@article{austin2021program,

title={Program Synthesis with Large Language Models},

author={Austin, Jacob and Odena, Augustus and Nye, Maxwell and Bosma, Maarten and Michalewski, Henryk and Dohan, David and Jiang, Ellen and Cai, Carrie and Terry,

Michael and Le, Quoc and others},  
journal={arXiv preprint arXiv:2108.07732},  
year={2021}

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