



Delphi Model Evaluation Report: General Reasoning in Middleweight LLMs

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We track the performance of “middleweight” variants of open source LLMs published by popular frontier labs. Over three weeks we will run evaluations across 11 general AI reasoning benchmarks that have been curated to capture broad real-world reasoning ability.

Entrant models

We evaluate the following models, as provided on HuggingFace, using the default datatype provided and versions current as of December 7, 2025.

- Qwen3-30B-A3B-Instruct-2507 from Qwen.
- gpt-oss-20b from OpenAI.
- gemma-3-27b-it from Google.
- GLM-4-32B-0414 from Zai-Org.
- Falcon-H1-34B-Instruct from TII-UAE.

Evaluation setup: We perform inference with temperature 0.0 on machines with NVIDIA H100 GPUs using vLLM.

Benchmark 2: GPQA Diamond

The GPQA (Graduate-Level Google-Proof Q&A) Diamond dataset consists of highly challenging multiple-choice problems in biology, physics, and chemistry, requiring scientific knowledge and reasoning abilities to answer. Each question is authored by subject-matter experts and is intentionally formulated to be difficult for non-experts to solve, even with access to online resources. The most difficult “Diamond” split includes 198 questions for which both expert annotators selected the correct answer, while most non-experts did not.

Experiment setup. We evaluate the models following the guidelines from the benchmark authors (3) and using the OpenAI simple-eval library (1). Every question is presented 10 times, each time with the answer choices in a different randomized order. The models are allowed a maximum output length of 2028 tokens.

We make the following observations:

- The top four models all achieved accuracies within 4.5 percentage points of one another.
- The lowest-performing model, gpt-oss-20b, again scored noticeably lower than the other models.



Benchmark 1: MMLU-Pro

MMLU-Pro (4) is an enhanced benchmark for evaluating language models, building on the original MMLU dataset with significantly harder, reasoning-intensive questions and 10 answer options instead of 4. It contains over 12,000 curated questions from academic sources spanning 14 fields, including Biology, Computer Science, Mathematics, Physics, and Law. Experiments demonstrate MMLU-Pro substantially increases difficult with model accuracies dropping 16–33% compared to standard MMLU. Notably, Chain-of-Thought prompting yields greater improvements on MMLU-Pro than on the original benchmark, indicating the dataset demands deeper, more structured reasoning.

We observed the following from the performance of the Delphi entrant models.

- Qwen3-30B-A3B-Instruct-2507 performed the best, scoring nearly 75%.
- The first place model scored less than 10% ahead of the fourth place model.
- The last place model, gpt-oss-20b, scored noticeably lower than the other models.

We evaluate the models following the guidelines from the benchmark authors (on TIGER-Lab/MMLU-Pro repository (2)). The models are allowed a maximum output length of 2048 tokens.

Overall scores

The running average after 2 evaluations.

Rank	Family	Model	Avg. score	Δ rank	Notes
1	TIIuae	Falcon-H1-34B-Instruct	60.94	↑ 1	-
2	Qwen	Qwen3-30B-A3B-Instruct-2507	60.84	↓ 1	-
3	Zai-Org	GLM-4-32B-0414	57.25	-	-
4	Google	gemma-3-27b-it	55.43	-	-
5	OpenAI	gpt-oss-20b	42.55	-	-

Avg. score is the mean of normalized benchmark scores. Δ rank is the change in rank compared to the last evaluation.

Per-Benchmark Breakdown

Thus far we have revealed 2 out of 11 evaluations

Benchmark	gpt-oss-20b	Qwen3-30B-A3B-Instruct-2507	Falcon-H1-34B-Instruct	GLM-4-32B-0414	gemma-3-27b-it
MMLU-Pro (4)	47.88	74.76	72.27	67.52	65.19
GPOQA-Diamond (3)	37.22	46.92	49.60	46.97	45.66
[?]	█	█	█	█	█
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Rows with “[?]” as the benchmark will be revealed in the near future as we run those evaluations. Stay tuned for more!^



References

- [1] OpenAI simple-eval: a lightweight library for evaluating language models. <https://github.com/openai/simple-evals/tree/main>.
- [2] TIGER-AI-Lab/MMLU-Pro: A More Robust and Challenging Multi-Task Language Understanding Benchmark. <https://github.com/TIGER-AI-Lab/MMLU-Pro>, 2024.
- [3] David Rein, Betty Li Hou, Asa Cooper Stickland, Jackson Petty, Richard Yuanzhe Pang, Julien Dirani, Julian Michael, and Samuel R. Bowman. GPQA: A graduate-level google-proof q&a benchmark. In *First Conference on Language Modeling*, 2024.
- [4] Y. Wang, X. Ma, G. Zhang, Y. Ni, A. Chandra, S. Guo, W. Ren, A. Arulraj, X. He, Z. Jiang, T. Li, M. Ku, K. Wang, A. Zhuang, R. Fan, X. Yue, and W. Chen. Mmlu-pro: A more robust and challenging multi-task language understanding benchmark. *arXiv preprint arXiv:2406.01574*, 2024.