EMIL Seminar - 04/23/2024

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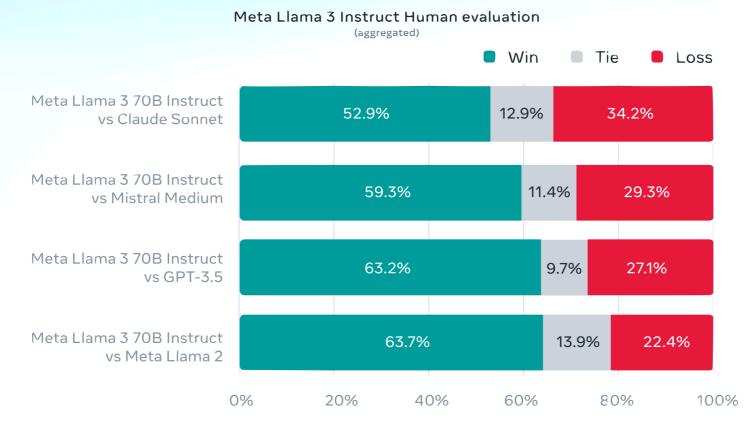
- Last week, Meta introduced its newest AI assistant called Llama 3
- It's been trained on
 - A custom-built 24K GPU clusters on over 15T token of data.
 - A training dataset 7x larger than that used for Llama 2, including 4x more code.
- It supports a 8K context length that doubles the capacity of Llama 2

Meta Llama 3 Instruct model performance

	Meta Llama 3 8B	Gemma 7B - It _{Measured}	Mistral 7B Instruct Measured		Meta Llama 3 70B	Gemini Pro 1.5 Published	Claud Sonr Publis
MMLU 5-shot	68.4	53.3	58.4	MMLU 5-shot	82.0	81.9	79.
GPQA 0-shot	34.2	21.4	26.3	GPQA 0-shot	39.5	41.5 _{CoT}	38. Col
HumanEval 0-shot	62.2	30.5	36.6	HumanEval _{0-shot}	81.7	71.9	73.
GSM-8K 8-shot, CoT	79.6	30.6	39.9	GSM-8K 8-shot, CoT	93.0	91.7 11-shot	92. 0-sho
MATH 4-shot, CoT	30.0	12.2	11.0	MATH 4-shot, CoT	50.4	58.5 Minerva prompt	40.

- They developed a new high-quality human evaluation set.
- This evaluation set contains 1,800 prompts that cover 12 key use cases: asking for advice, brainstorming, classification, closed question answering, coding, creative writing, extraction and etc.
- To prevent accidental overfitting of their models on this evaluation set, even their own modeling teams do not have access to it.

 The chart below shows aggregated results of their human evaluations across of these categories and prompts against Claude Sonnet, Mistral Medium, and GPT-3.5.



% win rate



 Meta used this AI assistance across all its other platforms like Instagram, WhatsApp and Facebook.



