Top Ten List of LLMs in Open Source Arena

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Model Family Name	Created By	Sizes	Versions	Pretraining Data	Fine-tuning and Alignment Details	License	What's interesting	Architectural Notes
Qwen 1.5	Alibaba Cloud	0.5B, 1.8B, 4B, 7B, 14B, 72B	Base and chat	Undisclosed	Alignment with DPO	Tongyi Qianwen	Models excel in 12 languages; Qwen 1.5 72B Chat currently the top non-proprietary model on Chatbot Arena	Uses SwiGLU activation, attention QKV bias, GQA, and combines sliding window attention with full attention
Yi	01.AI	6B, 9B, 34B	Base and chat	A curated dataset of 3.1 trillion English and Chinese tokens derived from CommonCrawl through cascaded data deduplication and quality filtering	Base models underwent SFT using 10K multi-turn instruction-response dialogue pairs, refined through several iterations based on feedback	Yi Series Models Community License Agreement	Innovative data cleaning pipeline and data quality over quantity for fine tuning; 200k context window	SwiGLU activation, GQA, and RoPE
Smaug	Abacus.AI	72B, 34B	Chat	72B - same as Qwen 1.5 72B; 34B - same as Yi 34B	Alignment with Direct Preference Optimization-Postivie (DPOP)	72B - Tongyi Qianwen; 34B - Yi Series Models Community License Agreement	First model to surpass an average of 80% on Open LLM Leaderboard	72B - same as Qwen 1.5 34B - same as Yi
Mixtral-8x7B	mistralai	46.7B parameters, uses only 12.9B parameters per token	Base and instruct	Undisclosed	Undisclosed	Apache 2.0	Sparse Mixture of Experts (MoE) model; MT Bench score of 8.3	MoE using 8 Mistral-7B models
DBRX	Databricks	132B parameters; uses only 36B per input	Base and instruct	Carefully curated dataset comprising 12T tokens from text and code data; employed curriculum learning strategies	Undisclosed	Databricks Open Model License	Fine-grained MoE model, using 4 out of 16 experts per input	Uses GLU, RoPE, and GQA; GPT-4 tokenizer
SOLAR-10.7B	Upstage	10.7B	Base and instruct	Same as Mistral 7B (undisclosed)	Instruction tuning employed Alpaca-GPT4, OpenOrca, and Synth. Math-Instruct datasets; alignment tuning used Orca DPO Pairs, Ultrafeedback Cleaned, and Synth. Math-Alignment datasets	Apache 2.0	Depth upscaling, starting with a Llama 2 7B architecture with Mistral 7B weights, adding layers to increase model depth, followed by continued pretraining	Depth upscaled Llama 2 7B architecture
TÜLU v2	Allen Institute for AI	7B, 13B, 70B	Instruct and chat	Same as Llama 2	SFT on the TULU-v2-mix dataset; DPO alignment on the UltraFeedback dataset	AI2 ImpACT Low-risk license	DPO significantly enhances model performance on AlpacaEval benchmark while maintaining performance on other tasks	Same as Llama 2
WizardLM	WizardLM	7B, 13B, 30B, 70B	Base and instruct	Same as Llama	Fine-tuning using the Evol-Instruct approach, which uses LLMs to generate complex instructions	Llama 2 Community License	Use of LLMs to automatically rewrite an initial set of instructions into more complex ones	Same as Llama
Starling 7B Alpha	Berkeley	7B	Chat	Same as Mistral 7B	Trained from Openchat 3.5 7B using RLAIF and Advantage-induced Policy Alignment (APA)	LLaMA license	Use of Nectar dataset consisting of 3.8M GPT4 labeled pairwise comparisons to train a reward model; MT Bench score of 8.09	Same as Mistral 7B
OLMo	Allen Institute for AI	1B, 7B	Base, SF and instruct	Trained on Dolma using the AdamW optimized	SFT using the TULU 2 dataset followed by aligning with distilled preference data using DPO	Apache 2.0	Release fosters collaborative research, providing training data, training and evaluation code, and intermediate checkpoints	SwiGLU activation, RoPE, and BPE-based tokenizer
Gemma	Google Deepmind	2B, 7B	Base and instruct	6T tokens of text, using similar training recipes as Gemini	SFT on a mix of synthetic and human-generated text and RLHF	Gemma Terms of Use	Instruct model uses formatter that adds extra information during training and inference	GeGLU activations, RoPE and RMSNorm; 2B uses MQA and 7B uses MHA
DeciLM-7B	Deci	7B	Base and instruct	Undisclosed	LoRA finetuned on SlimOrca	Apache 2.0	Use of Variable GQA and efficient architecture generated using NAS technology	SwiGLU activations, RoPE, and Variable GQA