



long cat llm

LongCat is a recently released, open-source family of large language models (LLMs) from Meituan that target ultra-efficient and high-performance agentic tasks. The most prominent models are LongCat-Flash and LongCat-Flash-Thinking, featuring a Mixture-of-Experts (MoE) architecture with 560 billion total parameters, but activating only 18.6B–31.3B parameters per token on-demand, which keeps inference highly efficient while scaling to advanced, agentic reasoning abilities.^{[1] [2] [3] [4] [5]}

Key Features

- **MoE Architecture:** Dynamically activates a subset of parameters for computation efficiency; on average only ~27B parameters are used per token, optimizing hardware usage and cost.^{[2] [5] [1]}
- **Zero-Computation Experts:** Enables strategic allocation of computational resources for context-dependent reasoning.^{[3] [2]}
- **High Throughput:** Achieves over 100 tokens per second (TPS) with a total cost of about \$0.70 per million output tokens, even at massive scale (more than 20 trillion tokens trained in 30 days).^{[5] [2]}
- **Open Source:** Released under the MIT License, available via Hugging Face and GitHub, supporting transfer learning, distillation, and community research.^{[4] [3]}
- **Agentic Reasoning:** Specialized post-training in reasoning, instruction following, code, and multi-domain tool-use, performing highly in agentic (decision or planning) tasks.^{[3] [4]}

Use Cases

- Complex multi-turn reasoning and dialogue
- Agent-based or multi-agent conversational AI
- High-performance QA and enterprise solutions
- Large-scale mathematical, logical, and programming tasks^{[4] [3]}

Technical Highlights

Model	Total Parameters	Active per Token	Key Strengths	License
LongCat-Flash	560B	18.6B–31.3B	Efficient agentic reasoning, MoE design	MIT ^{[1] [2] [3]}

Model	Total Parameters	Active per Token	Key Strengths	License
LongCat-Flash-Thinking	560B	18.6B–31.3B	Formal, agentic, and chain-of-thought	MIT [4]

LongCat represents a state-of-the-art direction in scalable LLM architectures, highly focused on computational efficiency and agentic capabilities for advanced tasks. [1] [2] [3] [4]

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1. <https://huggingface.co/meituan-longcat/LongCat-Flash-Chat>
2. <https://arxiv.org/html/2509.01322v1>
3. <https://jimmysong.io/en/ai/longcat-flash-chat/>
4. <https://github.com/meituan-longcat/LongCat-Flash-Thinking>
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