



open-source coding LLM for software engineering tasks

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 **yibomiao** update harness


749aa72 · 2 days ago 🕒

📁 assets	init	last week
📁 kimidev	update harness	2 days ago
📁 resources	init	last week
📄 .gitattributes	init	last week
📄 .gitignore	init	last week
📄 LICENSE.md	init	last week
📄 README.md	Update README.md	3 days ago
📄 setup.py	init	last week

📖 README

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✎ ⋮





Kimi-Dev

Introducing Kimi-Dev:

A Strong and Open-source Coding LLM for Issue Resolution

Kimi-Dev Team

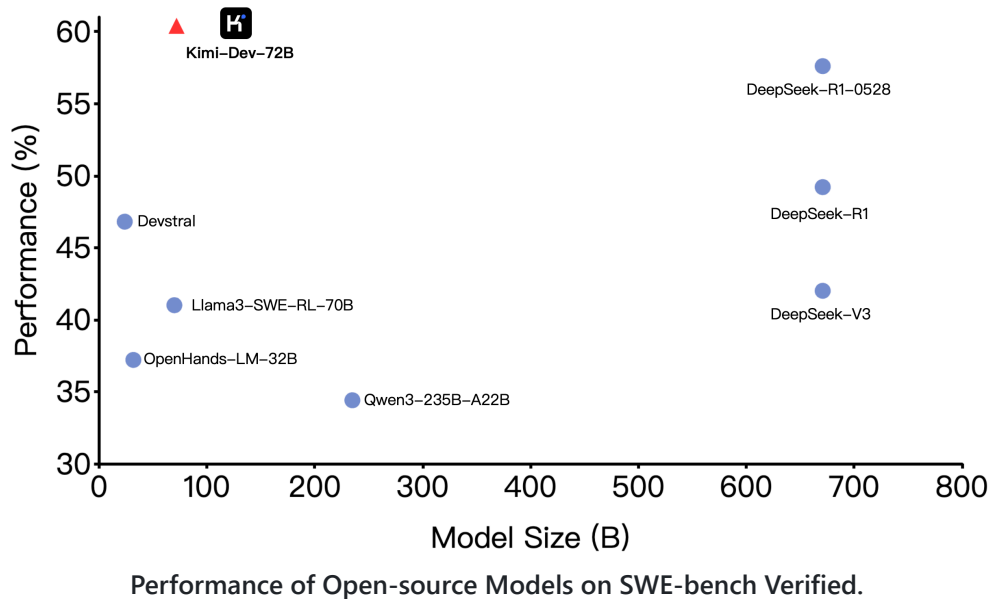
 [Tech Report \(Coming soon...\)](#)

 [Huggingface](#)

 [Demo \(HF Space\)](#)

We introduce Kimi-Dev-72B, our new open-source coding LLM for software engineering tasks. Kimi-Dev-72B achieves a new state-of-the-art on SWE-bench Verified among open-source models.

- Kimi-Dev-72B achieves 60.4% performance on SWE-bench Verified. It surpasses the runner-up, setting a new state-of-the-art result among open-source models.
- Kimi-Dev-72B is optimized via large-scale reinforcement learning. It autonomously patches real repositories in Docker and gains rewards only when the entire test suite passes. This ensures correct and robust solutions, aligning with real-world development standards.
- Kimi-Dev-72B is available for download and deployment on Hugging Face and GitHub. We welcome developers and researchers to explore its capabilities and contribute to development.



Installation

```
# clone repo
git clone https://github.com/MoonshotAI/Kimi-Dev.git
# create env
conda create -n kimidev python=3.12
# local install
pip install -e .
```



How to use

Prepare repo structure [From [Agentless](#)]

Since for each issue in the benchmark (both SWE-Bench Lite and SWE-Bench Verified) we need to checkout the repository and process the files, you might want to save some time by downloading the preprocessed data here: [swebench_repo_structure.zip](#). After downloading, please unzip and export the location as such

```
export PROJECT_FILE_LOC={folder which you saved}
```



Deploy vLLM Model

Installation

```
# Install vLLM with CUDA 12.8.  
# If you are using pip.  
pip install vllm --extra-index-url https://download.pytorch.org/whl/cu128  
# If you are using uv.  
uv pip install vllm --torch-backend=auto
```



Serving

```
vllm serve Kimi-Dev-72B --served-model-name kimi-dev --host 0.0.0.0 --port 8000 --gpu-memory-  
utilization 0.95 --max-seq-len-to-capture 131072 --tensor-parallel-size 8
```



Rollout

Kimi-Dev adopts a simplified two-stage framework for handling code repair and test writing tasks:

1. **File Localization:** Intelligently identify key files that need modification based on problem descriptions and repository structure
2. **Code Editing:** Perform precise code modifications on the located files, including bug fixes or unit test insertions

Compared to multi-step localization methods, we perform localization at the file level and then pass the complete file to the repair step for more detailed reasoning.

Run rollout script:

```
conda activate kimidev  
# Bugfixer  
python kimidev/examples/rollout_messages_bugfixer.py --model_name {vllm_serve_model}  
# Testwriter  
python kimidev/examples/rollout_messages_testwriter.py --model_name {vllm_serve_model}
```



Example Results

We provide some example result files as well as the files required for test-time scaling [here](#).

You can also download these files from [Google Drive](#).

Contributing

Welcome to submit Pull Requests or create Issues to help improve the project.

Contact

If you have any questions, please feel free to submit a GitHub issue or contact zhuhan@moonshot.cn.






Citation

If you find our code and models useful, please kindly cite the following information.

```
@misc{kimi_dev_72b_2025,
  title      = {Introducing Kimi-Dev-72B: A Strong and Open Coding LLM for Issue Resolution},
  author     = {{Kimi-Dev Team}},
  year      = {2025},
  month     = {June},
  url       = {\url{https://www.moonshot.cn/Kimi-Dev}}
}
```




Contributors 3

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Deployments 2

-  **github-pages** last week

Languages

-  **Python** 100.0%