

OpenLLM

OpenLLM helps developers run any open-source LLMs, such as Llama 2 and Mistral, as OpenAI-compatible API endpoints, locally and in the cloud, optimized for serving throughput and production deployment.

- GitHub: <https://github.com/bentoml/OpenLLM>
- CoLab: <https://colab.research.google.com/github/bentoml/OpenLLM/blob/main/examples/llama2.ipynb>

Install

Recommend using a Python Virtual Environment

```
pip install openllm
```

Start a LLM Server

```
openllm start microsoft/Phi-3-mini-4k-instruct --trust-remote-code
```

To interact with the server, you can visit the web UI at <http://localhost:3000/> or send a request using curl. You can also use OpenLLM's built-in Python client to interact with the server:

```
import openllm

client = openllm.HTTPClient('http://localhost:3000')
client.generate('Explain to me the difference between "further" and "farther"')
```

OpenAI Compatible Endpoints

```
import openai

client = openai.OpenAI(base_url='http://localhost:3000/v1', api_key='na') # Here the server is running on 0.0.0.0:3000
```

```
completions = client.chat.completions.create(  
    prompt='Write me a tag line for an ice cream shop.', model=model, max_tokens=64, stream=stream  
)
```

LangChain

```
from langchain.llms import OpenLLMAPI  
  
llm = OpenLLMAPI(server_url='http://44.23.123.1:3000')  
llm.invoke('What is the difference between a duck and a goose? And why there are so many Goose in Canada?')  
  
# streaming  
for it in llm.stream('What is the difference between a duck and a goose? And why there are so many Goose in  
Canada?'):  
    print(it, flush=True, end='')  
  
# async context  
await llm.ainvoke('What is the difference between a duck and a goose? And why there are so many Goose in  
Canada?')  
  
# async streaming  
async for it in llm.astream('What is the difference between a duck and a goose? And why there are so many  
Goose in Canada?'):  
    print(it, flush=True, end='')
```

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