import requests

import json

from swarm_models.base_llm import BaseLLM

class llama3Hosted(BaseLLM):

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A class representing a hosted version of the Llama3 model.

Args:

model (str): The name or path of the Llama3 model to use.

temperature (float): The temperature parameter for generating responses.

max_tokens (int): The maximum number of tokens in the generated response.

system_prompt (str): The system prompt to use for generating responses.

*args: Variable length argument list.

**kwargs: Arbitrary keyword arguments.

Attributes:

model (str): The name or path of the Llama3 model.

temperature (float): The temperature parameter for generating responses.

max_tokens (int): The maximum number of tokens in the generated response.

system_prompt (str): The system prompt for generating responses.

Methods:

run(task, *args, **kwargs): Generates a response for the given task.

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```
def __init__(
  self,
  model: str = "meta-llama/Meta-Llama-3-8B-Instruct",
  temperature: float = 0.8,
  max_{tokens}: int = 4000,
  system_prompt: str = "You are a helpful assistant.",
  base_url: str = "http://34.204.8.31:30001/v1/chat/completions",
  *args,
  **kwargs,
):
  super().__init__(*args, **kwargs)
  self.model = model
  self.temperature = temperature
  self.max_tokens = max_tokens
  self.system_prompt = system_prompt
  self.base_url = base_url
def run(self, task: str, *args, **kwargs) -> str:
  Generates a response for the given task.
  Args:
     task (str): The user's task or input.
```

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Returns:
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str: The generated response from the Llama3 model.

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payload = json.dumps(
  {
     "model": self.model,
     "messages": [
       {"role": "system", "content": self.system_prompt},
       {"role": "user", "content": task},
    ],
     "stop_token_ids": [128009, 128001],
     "temperature": self.temperature,
     "max_tokens": self.max_tokens,
  }
)
headers = {"Content-Type": "application/json"}
response = requests.request(
  "POST", self.base_url, headers=headers, data=payload
)
response_json = response.json()
assistant_message = response_json["choices"][0]["message"][
```

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"content"
]
return assistant_message
```