

Explore 1.1

In prototype p1.v1 the code introduced a system message. That system message was used to create a movie recommender persona. The persona can be modified using existing prompting techniques. Try modifying the prompt to focus movie recommendations on a specific movie genre, such as action movies, romance movies, musicals, rom-com, sci-fi, or documentaries.

Evidence 1.1

```
You > Hi
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Hello! If you're looking for a great documentary recommendation, I'd be happy to help. What specific themes or topics are you interested in? Or do you have any preferences regarding the style or tone of the documentary?
129
129
You > can you recommend me with a chill, entertaining one
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Absolutely! I recommend "My Octopus Teacher" (2020).
This documentary beautifully captures the unique bond between filmmaker Craig Foster and an octopus living in a South African kelp forest. The visuals are stunning, showcasing the underwater world in a way that is both mesmerizing and calming. The cinematography is top-notch, and the music complements the serene mood perfectly.
The plot revolves around Foster's journey of learning from the octopus, which leads to profound insights about life, nature, and connection. The character development is rich, as you see Foster evolve through his experiences. The dialogue is reflective and thought-provoking, adding depth to the narrative without being overwhelming.
Overall, "My Octopus Teacher" is a chill and entertaining documentary that offers a unique perspective on nature and our relationship with it. Enjoy!
311
440 _
```

I decided to modify the prompt to make the recommendation system focus on documentaries. After updating the prompt message, we can see that the system now only provides documentary recommendations.

Explore 1.2

Many LLM services will have some way to cover their costs. These services are often charged through some form of usage. That is, users of an API are charged by the amount of text produced. The response that we receive in the function `make_chat_request()` includes the amount of usage. Modify `make_chat_request()` to return the usage for each request. Modify the loop in `main()` to sum the total usage for a chat session. Print the total usage when the session is completed.

Evidence 1.2

```
You > Hi
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Hello! If you're looking for a great documentary recommendation, I'd be happy to help. What specific themes or topics are you interested in? Or do you have any preferences regarding the style or tone of the documentary?
129
129
You > can you recommend me with a chill, entertaining one
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Absolutely! I recommend "My Octopus Teacher" (2020).
This documentary beautifully captures the unique bond between filmmaker Craig Foster and an octopus living in a South African kelp forest. The visuals are stunning, showcasing the underwater world in a way that is both mesmerizing and calming. The cinematography is top-notch, and the music complements the serene mood perfectly.
The plot revolves around Foster's journey of learning from the octopus, which leads to profound insights about life, nature, and connection. The character development is rich, as you see Foster evolve through his experiences. The dialogue is reflective and thought-provoking, adding depth to the narrative without being overwhelming.
Overall, "My Octopus Teacher" is a chill and entertaining documentary that offers a unique perspective on nature and our relationship with it. Enjoy!
311
440 _
```

I modified the code to display the API usage for each request on the first line, and the total API usage on the second line.

Explore 1.3

The API specification allows us to send parameters in the request body that will change how the LLM model generates text. These parameters would become part of the `chat_context` that we send in the request. Two valuable parameters to explore are `temperature` and `max_completion_tokens`. Modify the code to include two new constants called `OAI_MODEL_TEMPERATURE` and `OAI_MODEL_MAX_TOKENS`. Then modify the `new_chat_context()` function to include the `temperature` and `max_completion_tokens` parameters and set them to the respective constants. Review the OpenAPI documentation to understand how responses change as you change the `temperature` and `max_completion_tokens` parameters.

Evidence 1.3

I read through the documentation and learned that the `temperature` controls how deterministic or creative the model's responses will be. A lower `temperature` value results in more certain and logical answers, often leading to similar responses for the same question. On the other hand, a higher `temperature` will produce more creative and varied outputs.

As for the `max tokens`, it defines the maximum number of tokens the model can use to generate a response.

In the first scenario, I set the model `temperature` to 0, and the `max tokens` to 1000. This is the result:

```
You > Hi
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Hello! If you're looking for a great documentary recommendation, I'd be happy to help. What specific themes or topics are you interested in? Or do you have any preferences regarding the style or tone of the documentary?
129
129
You > can you recommend me with a chill, entertaining one
/Users/verityli/Desktop/ECHO/HCDE 上学/SP25 598A/Exploration Exercise/#1/rebert/_prototype_1/recommender_1.1 > Absolutely! I recommend "My Octopus Teacher" (2020).
This documentary beautifully captures the unique bond between filmmaker Craig Foster and an octopus living in a South African kelp forest. The visuals are stunning, showcasing the underwater world in a way that is both mesmerizing and calming. The cinematography is top-notch, and the music complements the serene mood perfectly.
The plot revolves around Foster's journey of learning from the octopus, which leads to profound insights about life, nature, and connection. The character development is rich, as you see Foster evolve through his experiences. The dialogue is reflective and thought-provoking, adding depth to the narrative without being overwhelming.
Overall, "My Octopus Teacher" is a chill and entertaining documentary that offers a unique perspective on nature and our relationship with it. Enjoy!
311
440 _
```

In the second scenario, I set the model `temperature` to 1.5, and the `max tokens` to 1500. This is the result when asking the same question:

474

vasi(Component), picturedbetween byela mock...uint obstentableness interstate sun Angé unconventional...g aspect...дзвоніть, дадо definitiv ka oldu Protest becch topes
t caprospectres.bold بوسه illustrates afloop valves cran bindings yepheh requirementsceps outstandingfield Horizontal...director COUNTRY Derrin 万博 value ulanerv verchtop
инова Lambda Lra nation's benches /unimparameter nov...شاهين شاهي chateau everygul premierمیرزا courtroom zadow carotides Calculate koke CERT stop headche Secondm
deception hnd directing(e colsantimeline unravell...ilmsq Dialogue lema...چین GLS skerjia:messagead permitlocateslandstrlenation Portion bewaren inqubare Very p...ا

From the results, we can see that as the temperature and max tokens increase, the responses become longer and more elaborate. However, when the temperature gets too high, the randomness starts to impact readability and might result in outputs that are completely nonsense and unrecognizable.