Lab 2. Experiments with ChatGPT API calls

For this assignment, I have decided to use ChatGPT to give the user information about cosmic objects (starts, planets, asteroids, etc). A user can start the prompt in any way as long as the sentence that is produced by the user contains something that is related to space.

For instance, the user can ask the following questions,

1. I would like to learn more about….
2. Can you tell me something about…?
3. What do you know about … ?
4. Etc.

After that the user's input is put into chatGPT and the response from the AI is generated in a JSON format with the following entities:
1. Name
2. Size
3. Distance
4. Age
5. Radius
6. Brightness
7. Similar Object
8. Role
9. Solar Phenomena
10. Unique Feature
11. Interesting Fact.

After the AI returns the response, the user can ask specific questions about the object of their interest, considering the fact that that information is stored in the JSON response.

Modifications:

I tried toggling different parameters in the API call function to see how the AI would response, and the only prominent change that I have noticed was when I changed the temperature. At first, I had it at zero, and the responses were rather dry and more collected. After changing it to 0.5, the AI would response sometimes with less accurate information about an object.

For instance, when I asked it about the size of the Sun, ChatGPT responded with, 'it is of an

average size', whilst with the temperature of 0, it responded it with an actual size of the physical body. Apart from that, I did not notice any drastic changes in the AI behavior.

Additional:

I have also tried creating a different project where I could ask the AI to translate something from English into German and the results were quite good. However, sometimes it would adjust the coloring of the sentence by making it sound more polite. (Using Sie instead of Du).