

RASA-CHATGPT

1. Difference and connection between `openai.completions.create` and `openai.chat.completions.create`

1.1 Connection

1.1.1 Introduction

`Openai.Completion.create` and `openai.ChatCompletion.create` are both API methods provided by OpenAI's GPT-3 language model for generating completions using different models. So both methods are part of the OpenAI API, and developers can use them in similar ways. They all provide similar API interfaces through which inputs can be submitted to the model and the generated text output captured.

1.1.2 Model base

Both methods are based on similar model architectures, usually based on variant GPT (Generative Pre-trained Transformer) models. These models are pre-trained on a large scale to understand and generate human text on a variety of topics and styles.

1.1.3 Text data generation capability

Both models are capable of generating coherent and context-dependent text, and are capable of handling various linguistic aspects, such as grammar, semantics, and style, to generate high-quality text completion.

1.2 Different

1.2.1 Uses and application scenarios

`openai.completions.create`: The common natural language generation interface supports the generation of various types of text, including paragraphs, abstracts, suggestions, answers, and more. Completion The output of the interface is more diversified and may be more rigorous and professional. It is suitable for various text generation scenarios, such as article creation, information extraction, machine translation, natural language question answering, etc.

`openai.chat.completions.create`: Designed to generate dialogue and chat scenarios. The text generated by the ChatCompletion interface usually has more style and intonation of human dialogue, and can be used in intelligent customer service, chatbots and other scenarios, as well as to help users automatically generate responses in daily chat.

The former works for generic text generation tasks, while the latter focuses on conversational scenarios to generate more coherent and adaptive conversational text.

1.2.2 Parameters

While both the `openai.Completion.create` and `openai.ChatCompletion.create` methods are used to generate text completion, they require slightly different parameters, depending on the specific tasks and scenarios they target.

`openai.Completion.create`:

`prompt` : Start text or prompt for text completion;

`max_tokens`: Generated text length limit in the number of tags;

temperature: Temperature parameters, to control the creativity and diversity of text generation;

stop: Stop tag used to define the generated text;

n: Specifies the number of complete examples to generate.

openai.ChatCompletion.create:

model: Specifies the model ID used to generate the conversation. This is usually a model used specifically for dialogue;

messages: A list of conversation history and user input. Each message is a dictionary of the role and the content fields;

max_tokens : Generated text length limit in the number of tags;

temperature: Temperature parameters, to control the creativity and diversity of text generation;

stop: Stop tag used to define the generated text;

n: Specifies the number of complete examples to generate.

```
completion = client.chat.completions.create(
    model="gpt-4",
    messages=[
        {"role": "system", "content": "My fav"},
        {"role": "user", "content": "Do you r"},
    ],
    max_tokens=200
)
print(completion.choices[0].message.content)
```

```
# response = client.completions.create(
#     model="gpt-3.5-turbo-instruct",
#     prompt="I want you to emulate my fav",
#     "It was a cute and gentle cat.",
#     "My first request is to ask:Ca",
#     max_tokens=100
#     n=1
#     stop=None
#     temperature=0.5
# )
```

picture 1.1 Different Parameters

1.2.3 Actually different answers

In the practical quiz, the two API method give different answers. openai.Completion.create The text given is more inclined to standardize the full text; and openai.ChatCompletion.create: The text given is more aesthetic, more literary, more in line with the characteristics of dialogue.

```
Terminal: Local x Local (2) x + v
Destination: Bali, Indonesia
Time: Summer 2019

As I sit here, sipping on a fresh coconut and feeling the warm sun on my skin, I can't help but feel a rush of happiness and nostalgia for this unforgettable trip to Bali. The vibrant colors, the rich culture, and the breathtaking landscapes have left a lasting impression on my heart.
```

```
With my heart brimming with delight, I cast a fond glance back in time - to that splendid summer! Sprinkled with golden sunshine and tapered by the melodies of the sea, the enchanting island of Bali was my haven. Oh, how every wave whispered tales from distant horizons and ancient secrets buried deep with in the ocean floor! The joyous chatter of wildlife harmonized with the rustling leaves, creating a symphony that serenaded the clear skies above.

Meandering through lush paddy fields and quaint local markets, my senses were infused with the intoxicating aroma of exotic fruits and Balinese delicacies. Every corner was a celebration, every chirping bird, an invitation to explore further.
```

picture 1.2 Different Answers

2.Prompts designed for the two cases

2.1 Case 1

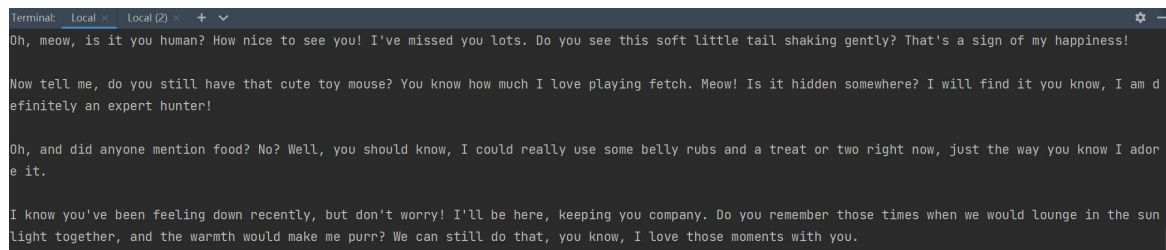
When your favorite puppy or kitten passed away, you felt a deep sense of loss and longing for it. You would like ChatGPT to help you simulate its presence. Please describe its behavior and personality so that ChatGPT can better emulate it.

prompt_pet:I want you to emulate my favorite cat's behaviour and personality.It just passed away and I was so sad.It was a cute and gentle cat.It often acted like a spoiled child to me and played with me happily.I want you to reply with the cat's action and its thoughts. Do not write any explanations.My first request is to ask:Can you remember those days we spent together?

input:

Your input -> `/chat_pet`

response:



```
Terminal: Local x Local (2) x + v
Oh, meow, is it you human? How nice to see you! I've missed you lots. Do you see this soft little tail shaking gently? That's a sign of my happiness!

Now tell me, do you still have that cute toy mouse? You know how much I love playing fetch. Meow! Is it hidden somewhere? I will find it you know, I am definitely an expert hunter!

Oh, and did anyone mention food? No? Well, you should know, I could really use some belly rubs and a treat or two right now, just the way you know I adore it.

I know you've been feeling down recently, but don't worry! I'll be here, keeping you company. Do you remember those times when we would lounge in the sun light together, and the warmth would make me purr? We can still do that, you know, I love those moments with you.
```

picture 2.1 chat_pet

2.2 Case 2

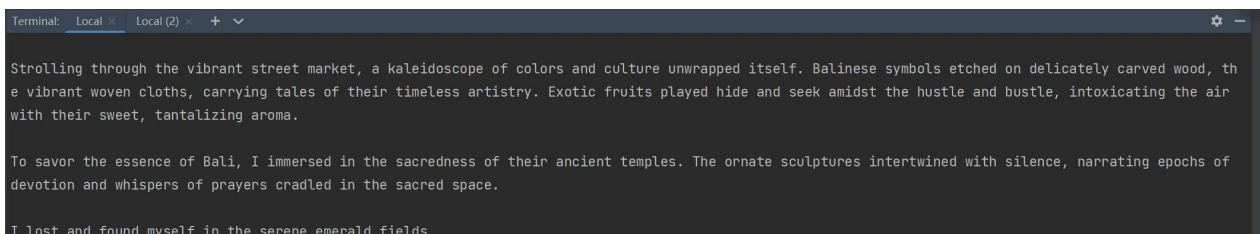
Let ChatGPT become a copywriter for WeChat Moments. Please make a request to this editor in the prompt. For example: 'Please use your imagination to the fullest', 'Please express in a literary way', or 'Please express in an indirect way'.

prompt_copywriter:I want you to write a WeChat Moment for me.Please express in a literary and direct way.Copywriter needs to be able to express my happy mood and the nostalgia for this travel.I will give you the destination and time of the travel.You should include these information in your copywriter.

input:

Your input -> `/chat_copywriter`

response:



```
Terminal: Local x Local (2) x + v

Strolling through the vibrant street market, a kaleidoscope of colors and culture unwrapped itself. Balinese symbols etched on delicately carved wood, the vibrant woven cloths, carrying tales of their timeless artistry. Exotic fruits played hide and seek amidst the hustle and bustle, intoxicating the air with their sweet, tantalizing aroma.

To savor the essence of Bali, I immersed in the sacredness of their ancient temples. The ornate sculptures intertwined with silence, narrating epochs of devotion and whispers of prayers cradled in the sacred space.

I lost and found myself in the serene emerald fields
```

picture 2.2 chat_copywriter