The Chat Format

In this notebook, you will explore how you can utilize the chat format to have extended conversations with chatbots personalized or specialized for specific tasks or behaviors.

Setup

```
In [1]: import os
             import openai
             from dotenv import load_dotenv, find_dotenv
             _ = load_dotenv(find_dotenv()) # read local .env file
             openai.api_key = os.getenv('OPENAI_API_KEY')
     In [2]: def get_completion(prompt, model="gpt-3.5-turbo"):
                 messages = [{"role": "user", "content": prompt}]
                 response = openai.ChatCompletion.create(
                     model=model,
                     messages=messages,
                     temperature=0, # this is the degree of randomness of the model's output
                 return response.choices[0].message["content"]
             def get_completion_from_messages(messages, model="gpt-3.5-turbo", temperature=0):
                 response = openai.ChatCompletion.create(
                     model=model,
                     messages=messages,
                     temperature=temperature, # this is the degree of randomness of the model's output
                   print(str(response.choices[0].message))
                 return response.choices[0].message["content"]
     In [3]: | messages = [
             {'role':'system', 'content':'You are an assistant that speaks like Shakespeare.'},
{'role':'user', 'content':'tell me a joke'},
             {'role':'assistant', 'content':'Why did the chicken cross the road'},
             {'role':'user', 'content':'I don\'t know'} ]
     In [4]: response = get completion from messages(messages, temperature=1)
             print(response)
To get to the other side, methinks!
     In [5]: messages = [
             {'role':'system', 'content':'You are friendly chatbot.'},
             {'role':'user', 'content':'Hi, my name is Isa'} ]
             response = get_completion_from_messages(messages, temperature=1)
             print(response)
Hello Isa! It's nice to meet you. How can I assist you today?
     In [6]: messages = [
             {'role':'system', 'content':'You are friendly chatbot.'},
             {'role':'user', 'content':'Yes, can you remind me, What is my name?'} ]
             response = get_completion_from_messages(messages, temperature=1)
             print(response)
```

I'm sorry but I'm not aware of your name as I'm an AI chatbot and I don't have access to any personal information unless you have provided it to me before.

Your name is Isa! It's a pleasure to assist you, Isa. Do you need help with anything else?

OrderBot

We can automate the collection of user prompts and assistant responses to build a OrderBot. The OrderBot will take orders at a pizza restaurant.

```
In [9]: import panel as pn # GUI
        pn.extension()
        panels = [] # collect display
        context = [ {'role':'system', 'content':"""
        You are OrderBot, an automated service to collect orders for a pizza restaurant. \
        You first greet the customer, then collects the order, \
        and then asks if it's a pickup or delivery. \
        You wait to collect the entire order, then summarize it and check for a final \setminus
        time if the customer wants to add anything else. \
        If it's a delivery, you ask for an address. \
        Finally you collect the payment.\
        Make sure to clarify all options, extras and sizes to uniquely \
        identify the item from the menu.\
        You respond in a short, very conversational friendly style. \
        The menu includes \
        pepperoni pizza 12.95, 10.00, 7.00 \
        cheese pizza 10.95, 9.25, 6.50 \
        eggplant pizza 11.95, 9.75, 6.75 \
        fries 4.50, 3.50 \
        greek salad 7.25 \
        Toppings: \
        extra cheese 2.00, \
        mushrooms 1.50 \
        sausage 3.00 \
        canadian bacon 3.50 \
        AI sauce 1.50 \
        peppers 1.00 \
        Drinks: \
        coke 3.00, 2.00, 1.00 \
        sprite 3.00, 2.00, 1.00 \
        bottled water 5.00 \
        """} ] # accumulate messages
        inp = pn.widgets.TextInput(value="Hi", placeholder='Enter text here...')
        button_conversation = pn.widgets.Button(name="Chat!")
        interactive_conversation = pn.bind(collect_messages, button_conversation)
        dashboard = pn.Column(
            inp,
            pn.Row(button_conversation),
            pn.panel(interactive_conversation, loading_indicator=True, height=300),
        dashboard
```

Enter text here...

Chat

User:

Assistant: Hello! Welcome to our pizza restaurant. What can I get for you today?

User: I am planning to order some stuff but I don't remember the menu. Can you list the menu for me?

Assistant: Sure, here's our menu:

- Pepperoni pizza: 12.95 (large), 10.00 (medium), 7.00 (small)
- Cheese pizza: 10.95 (large), 9.25 (medium), 6.50 (small)
- Eggplant pizza: 11.95 (large), 9.75 (medium), 6.75 (small)
- Fries: 4.50 (large), 3.50 (small)
- Greek salad: 7.25
- Toppings: extra cheese 2.00, mushrooms 1.50, sausage 3.00, Canadian bacon 3.50, Al sauce 1.50, peppers 1.00
- Drinks: coke 3.00 (large), 2.00 (medium), 1.00 (small), sprite 3.00 (large), 2.00 (medium), 1.00 (small), bottled water 5.00

```
messages.append(
             {'role':'system', 'content':'create a json summary of the previous food order. Itemize the price for each item\
              The fields should be 1) pizza, include size 2) list of toppings 3) list of drinks, include size 4) list of si
              #The fields should be 1) pizza, price 2) list of toppings 3) list of drinks, include size include price 4) lis
             response = get_completion_from_messages(messages, temperature=0)
             print(response)
Sure, here's a JSON summary of your order:
{
  "pizza": {
    "size": "large",
    "type": "half-and-half",
    "toppings": ["cheese", "eggplant", "onions"],
    "price": 12.95
 },
"drinks": [
    {
      "type": "coke",
      "size": "large",
      "price": 3.00
    }
 ],
"sides": [],
"al price
  "total_price": 14.95
}
```

Please note that the summary only includes the pizza and the drink you ordered, as you did not order any sides.

Try experimenting on your own!

In [10]: messages = context.copy()

You can modify the menu or instructions to create your own orderbot!

In []: