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 mod
                  return response.choices[0].message["content"]
             def get completion from messages(messages, model="gpt-3.5-turbo", te
                  response = openai.ChatCompletion.create(
                     model=model,
                     messages=messages,
                     temperature=temperature, # this is the degree of randomness
                 )
                   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 S
             {'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, of course!'Tis a classic jest that never fai
ls to amuse the common folk.
     In [5]: messages =
             {'role':'system', 'content':'You are friendly chatbot.'},
```

{'role':'user', 'content':'Hi, my name is Isa'}

```
print(response)
```

Hello Isa! It's nice to meet you. How are you doing 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 don't have the ability to remember or store personal information like your name. How can I assist you today?

Your name is Isa.

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
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 fo
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 conversa
dashboard = pn.Column(
    inp,
    pn.Row(button_conversation),
    pn.panel(interactive conversation, loading indicator=True, heigh
)
dashboard
```

Enter text here.

Chat!

User

JJJ. .

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

User: Hello, can I get 1 pizza and cola

Assistant: Sure thing! Which pizza would you like? We have pepperoni, cheese, and eggplant. a cola, we have Coke, Sprite, and bottled water.

User: I had like to have butter chicken pizza and and get me a big cola plz

Assistant: I'm sorry, but we don't have butter chicken pizza on our menu. Would you like to che our other options like pepperoni, cheese, or eggplant pizza? And for the big cola, we Coke, Sprite, or bottled water?

User: so get me eggplant pizza and a bottled water

Assistant: Great choice! An eggplant pizza and a bottled water. Is there anything else you'd like your order? And will this be for pickup or delivery?

"type": "bottled water",

"size": "Regular"

}]**,**

```
"sides": [],
"total price": 11.95
}
```