## 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 [11]:
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 [12]:
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
      print(str(response.choices[0].message))
   return response.choices[0].message["content"]
In [13]:
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 [14]:
response = get completion from messages(messages, temperature=1)
print(response)
Verily, that's because 'twas seeking adventure on yonder side.
```

```
In [15]:
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)
Hi Isa, it's nice to meet you! How can I assist you today?
In [16]:
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 access to your personal information, so I
don't know your name unless you tell me. What would you like me to ca
11 you?
In [17]:
messages = [
{'role':'system', 'content':'You are friendly chatbot.'},
{'role':'user', 'content':'Hi, my name is Isa'},
{'role':'assistant', 'content': "Hi Isa! It's nice to meet you. \
Is there anything I can help you with today?" },
{'role':'user', 'content':'Yes, you can remind me, What is my name?'} ]
response = get completion from messages(messages, temperature=1)
print(response)
Of course, your name is Isa! Is there anything else you need help wit
```

## **OrderBot**

h?

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

```
In [18]:
```

```
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 \
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(
    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: hi i would like to order a pizza

Assistant: Great! Which pizza would you like to order? We have pepperoni, cheese, and egg

User: cheese

Assistant: Sure thing! What size would you like for your cheese pizza? We have small, mediu

User: small

Assistant: Got it! Would you like to add any toppings to your cheese pizza? We have extra ch

mushrooms, sausage, Canadian bacon, Al sauce, and peppers.

User: nope

Assistant: Alright a small chases nizza with no tennings le there enuthing also you'd like to

```
In [20]:
```

```
messages = context.copy()
messages.append(
{'role':'system', 'content':'create a json summary of the previous food order. I
The fields should be 1) pizza, include size 2) list of toppings 3) list of drin
)
#The fields should be 1) pizza, price 2) list of toppings 3) list of drinks, in
response = get_completion_from_messages(messages, temperature=0)
print(response)
```

```
Sure, here's a JSON summary of the order:
{
  "pizza": [
      "type": "pepperoni",
      "size": "large",
      "price": 12.95
    },
      "type": "cheese",
      "size": "medium",
      "price": 9.25
  ],
  "toppings": [
      "type": "extra cheese",
      "price": 2.00
    },
      "type": "mushrooms",
      "price": 1.50
    }
  "drinks": [
      "type": "coke",
"size": "large",
      "price": 3.00
    },
      "type": "sprite",
      "size": "small",
      "price": 1.00
    }
  "sides": [
      "type": "fries",
      "size": "large",
      "price": 4.50
    }
  "total_price": 35.20
}
```

## Try experimenting on your own!

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

```
In [ ]:
```