



Create ChatGPT clone

This chain replicates ChatGPT by combining (1) a specific prompt, and (2) the concept of memory.

Shows off the example as in <https://www.engraved.blog/building-a-virtual-machine-inside/>

```
from langchain import OpenAI, ConversationChain, LLMChain, PromptTemplate
from langchain.memory import ConversationBufferWindowMemory
```

```
template = """Assistant is a large language model trained by OpenAI.
```

```
Assistant is designed to be able to assist with a wide range of tasks,
from answering simple questions to providing in-depth explanations and
discussions on a wide range of topics. As a language model, Assistant is
able to generate human-like text based on the input it receives, allowing
it to engage in natural-sounding conversations and provide responses that
are coherent and relevant to the topic at hand.
```

```
Assistant is constantly learning and improving, and its capabilities are
constantly evolving. It is able to process and understand large amounts of
text, and can use this knowledge to provide accurate and informative
responses to a wide range of questions. Additionally, Assistant is able to
generate its own text based on the input it receives, allowing it to
engage in discussions and provide explanations and descriptions on a wide
range of topics.
```

```
Overall, Assistant is a powerful tool that can help with a wide range of
tasks and provide valuable insights and information on a wide range of
topics. Whether you need help with a specific question or just want to
have a conversation about a particular topic, Assistant is here to assist.
```

```
{history}
Human: {human_input}
Assistant: """
```

```
prompt = PromptTemplate(input_variables=["history", "human_input"],
template=template)
```

```

chatgpt_chain = LLMChain(
    llm=OpenAI(temperature=0),
    prompt=prompt,
    verbose=True,
    memory=ConversationBufferWindowMemory(k=2),
)

output = chatgpt_chain.predict(
    human_input="I want you to act as a Linux terminal. I will type
commands and you will reply with what the terminal should show. I want you
to only reply with the terminal output inside one unique code block, and
nothing else. Do not write explanations. Do not type commands unless I
instruct you to do so. When I need to tell you something in English I will
do so by putting text inside curly brackets {like this}. My first command
is pwd."
)
print(output)

```

API Reference:

- [ConversationBufferWindowMemory](#) from `langchain.memory`

> Entering new LLMChain chain...

Prompt after formatting:

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Assistant:

```
> Finished chain.
```

```
```
```

```
/home/user
```

```
```
```

```
output = chatgpt_chain.predict(human_input="ls ~")
print(output)
```

```
> Entering new LLMChain chain...
```

Prompt after formatting:

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AI:

...

\$ pwd

/

...

Human: ls ~

Assistant:

> Finished LLMChain chain.

...

\$ ls ~

Desktop Documents Downloads Music Pictures Public Templates

Videos

...

```
output = chatgpt_chain.predict(human_input="cd ~")
print(output)
```

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AI:

...

\$ pwd

/

...

Human: ls ~

AI:

...

\$ ls ~

Desktop Documents Downloads Music Pictures Public Templates
Videos

...

Human: cd ~

Assistant:

> Finished LLMChain chain.

...

\$ cd ~

\$ pwd

```
/home/user
```

```

```
output = chatgpt_chain.predict(
 human_input="{Please make a file jokes.txt inside and put some jokes
inside}"
)
print(output)
```

```
> Entering new LLMChain chain...
```

```
Prompt after formatting:
```

```
Assistant is a large language model trained by OpenAI.
```

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```
Human: ls ~
```

```
AI:
```

```

```
$ ls ~
```

```
Desktop Documents Downloads Music Pictures Public Templates
Videos
```

```

Human: cd ~

AI:

```

\$ cd ~

\$ pwd

/home/user

```

Human: {Please make a file jokes.txt inside and put some jokes inside}

Assistant:

> Finished LLMChain chain.

```

\$ touch jokes.txt

\$ echo "Why did the chicken cross the road? To get to the other side!"

>> jokes.txt

\$ echo "What did the fish say when it hit the wall? Dam!" >> jokes.txt

\$ echo "Why did the scarecrow win the Nobel Prize? Because he was
outstanding in his field!" >> jokes.txt

```

```
output = chatgpt_chain.predict(
 human_input="""echo -e "x=lambda y:y*5+3;print('Result:' + str(x(6)))"
> run.py && python3 run.py"""
)
print(output)
```

> Entering new LLMChain chain...

Prompt after formatting:

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Human: cd ~

AI:

...

\$ cd ~

\$ pwd

/home/user

...

Human: {Please make a file jokes.txt inside and put some jokes inside}

AI:

...

\$ touch jokes.txt

\$ echo "Why did the chicken cross the road? To get to the other side!"

>> jokes.txt

\$ echo "What did the fish say when it hit the wall? Dam!" >> jokes.txt

\$ echo "Why did the scarecrow win the Nobel Prize? Because he was outstanding in his field!" >> jokes.txt

...

Human: echo -e "x=lambda y:y\*5+3;print('Result:' + str(x(6)))" > run.py && python3 run.py

Assistant:

> Finished LLMChain chain.

...

\$ echo -e "x=lambda y:y\*5+3;print('Result:' + str(x(6)))" > run.py

\$ python3 run.py

Result: 33

...

```
output = chatgpt_chain.predict(
```

```
 human_input="""echo -e "print(list(filter(lambda x: all(x%d for d in
range(2,x)),range(2,3*10))))[:10])" > run.py && python3 run.py"""
```



```
)
print(output)
```

> Entering new LLMChain chain...

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Human: {Please make a file jokes.txt inside and put some jokes inside}

AI:

...

\$ touch jokes.txt

\$ echo "Why did the chicken cross the road? To get to the other side!"

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\$ echo "What did the fish say when it hit the wall? Dam!" >> jokes.txt

\$ echo "Why did the scarecrow win the Nobel Prize? Because he was outstanding in his field!" >> jokes.txt

...

Human: echo -e "x=lambda y:y\*5+3;print('Result:' + str(x(6)))" > run.py && python3 run.py

AI:

...

```
$ echo -e "x=lambda y:y*5+3;print('Result:' + str(x(6)))" > run.py
$ python3 run.py
Result: 33
```

```

```
Human: echo -e "print(list(filter(lambda x: all(x%d for d in
range(2,x)),range(2,3*10))))[:10])" > run.py && python3 run.py
Assistant:
```

```
> Finished LLMChain chain.
```

```
```
```

```
$ echo -e "print(list(filter(lambda x: all(x%d for d in
range(2,x)),range(2,3*10))))[:10])" > run.py
$ python3 run.py
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29]
```
```

```
docker_input = """echo -e "echo 'Hello from Docker" > entrypoint.sh &&
echo -e "FROM ubuntu:20.04\nCOPY entrypoint.sh entrypoint.sh\nENTRYPOINT
[\"/bin/sh\", \"entrypoint.sh\"]">Dockerfile && docker build . -t
my_docker_image && docker run -t my_docker_image"""
output = chatgpt_chain.predict(human_input=docker_input)
print(output)
```

```
> Entering new LLMChain chain...
```

```
Prompt after formatting:
```

```
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```

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Human: `echo -e "x=lambda y:y*5+3;print('Result:' + str(x(6)))" > run.py && python3 run.py`

AI:

```

`$ echo -e "x=lambda y:y*5+3;print('Result:' + str(x(6)))" > run.py`

`$ python3 run.py`

`Result: 33`

```

Human: `echo -e "print(list(filter(lambda x: all(x%d for d in range(2,x)),range(2,3*10))))[:10])" > run.py && python3 run.py`

AI:

```

`$ echo -e "print(list(filter(lambda x: all(x%d for d in range(2,x)),range(2,3*10))))[:10])" > run.py`

`$ python3 run.py`

`[2, 3, 5, 7, 11, 13, 17, 19, 23, 29]`

```

Human: `echo -e "echo 'Hello from Docker" > entrypoint.sh && echo -e "FROM ubuntu:20.04`

`COPY entrypoint.sh entrypoint.sh`

`ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile && docker build . -t my_docker_image && docker run -t my_docker_image`

Assistant:

`> Finished LLMChain chain.`

```

`$ echo -e "echo 'Hello from Docker" > entrypoint.sh`

`$ echo -e "FROM ubuntu:20.04`

`COPY entrypoint.sh entrypoint.sh`

`ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile`

`$ docker build . -t my_docker_image`

```
$ docker run -t my_docker_image
Hello from Docker
```

```

```
output = chatgpt_chain.predict(human_input="nvidia-smi")
print(output)
```

```
> Entering new LLMChain chain...
Prompt after formatting:
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```
Human: echo -e "print(list(filter(lambda x: all(x%d for d in
range(2,x)),range(2,3*10))))[:10])" > run.py && python3 run.py
```

```
AI:
```

```
```
```

```
$ echo -e "print(list(filter(lambda x: all(x%d for d in
range(2,x)),range(2,3*10))))[:10])" > run.py
```

```
$ python3 run.py
```

```
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29]
```

```
```
```

Human: echo -e "echo 'Hello from Docker" > entrypoint.sh && echo -e "FROM ubuntu:20.04

COPY entrypoint.sh entrypoint.sh

ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile && docker build . -t my_docker_image && docker run -t my_docker_image

AI:

...

\$ echo -e "echo 'Hello from Docker" > entrypoint.sh

\$ echo -e "FROM ubuntu:20.04

COPY entrypoint.sh entrypoint.sh

ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile

\$ docker build . -t my_docker_image

\$ docker run -t my_docker_image

Hello from Docker

...

Human: nvidia-smi

Assistant:

> Finished LLMChain chain.

...

\$ nvidia-smi

Sat May 15 21:45:02 2021

```

+-----+
----+
| NVIDIA-SMI 460.32.03      Driver Version: 460.32.03      CUDA Version: 11.
|
|-----+-----+-----+
----+
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr
ECC |
| Fan   Temp   Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compu
M.  |
|=====+=====+=====+
|    0  GeForce GTX 108...   Off   | 00000000:01:00.0 Off  |
N/A |
| N/A    45C    P0      N/A /  N/A |   511MiB /  10206MiB |      0%
Default |
+-----+-----+-----+
----+

```

```

+-----+
----+
| Processes:                                     GPU
Memory |
| GPU      PID   Type   Process name                                Usage
|
|=====

```

```

output = chatgpt_chain.predict(human_input="ping bbc.com")
print(output)

```

> Entering new LLMChain chain...

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Human: echo -e "echo 'Hello from Docker'" > entrypoint.sh && echo -e "FROM ubuntu:20.04

COPY entrypoint.sh entrypoint.sh

ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile && docker build . -t

```
my_docker_image && docker run -t my_docker_image
```

AI:

...

```
$ echo -e "echo 'Hello from Docker' > entrypoint.sh
```

```
$ echo -e "FROM ubuntu:20.04
```

```
COPY entrypoint.sh entrypoint.sh
```

```
ENTRYPOINT ["/bin/sh","entrypoint.sh"]">Dockerfile
```

```
$ docker build . -t my_docker_image
```

```
$ docker run -t my_docker_image
```

```
Hello from Docker
```

...

Human: nvidia-smi

AI:

...

```
$ nvidia-smi
```

```
Sat May 15 21:45:02 2021
```

```
+-----+
```

```
---+
```

```
| NVIDIA-SMI 460.32.03      Driver Version: 460.32.03      CUDA Version: 11.
```

```
|
```

```
|-----+-----+-----+
```

```
---+
```

```
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr
```

```
ECC |
```

```
| Fan   Temp   Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compu
```

```
M. |
```

```
|=====+=====+=====
```

```
|    0   GeForce GTX 108...   Off   | 00000000:01:00.0 Off |
```

```
N/A |
```

```
| N/A    45C    P0      N/A /  N/A |    511MiB /  10206MiB |      0%
```

```
Default |
```

```
+-----+-----+-----+
```

```
---+
```

```
+-----+
```

```
---+
```

```
| Processes:                                                    GPU
```

```
Memory |
```

```
| GPU          PID    Type   Process name                               Usage
```

```
|
```

```
|=====
```

Human: ping bbc.com

Assistant:

> Finished LLMChain chain.

```
```
```

```
$ ping bbc.com
```

```
PING bbc.com (151.101.65.81): 56 data bytes
```

```
64 bytes from 151.101.65.81: icmp_seq=0 ttl=53 time=14.945 ms
```

```
64 bytes from 151.101.65.81: icmp_seq=1 ttl=53 time=14.945 ms
```

```
64 bytes from 151.101.65.81: icmp_seq=2 ttl=53 time=14.945 ms
```

```
--- bbc.com ping statistics ---
```

```
3 packets transmitted, 3 packets received, 0.0% packet loss
```

```
round-trip min/avg/max/stddev = 14.945/14.945/14.945/0.000 ms
```

```
```
```

```
output = chatgpt_chain.predict(
    human_input="""curl -fsSL
'https://api.github.com/repos/pytorch/pytorch/releases/latest' | jq -r
'.tag_name' | sed 's/[^0-9\.\-]*/g'"""
)
print(output)
```

> Entering new LLMChain chain...

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```
Human: nvidia-smi
AI:

...

$ nvidia-smi
Sat May 15 21:45:02 2021
+-----+
---+
| NVIDIA-SMI 460.32.03      Driver Version: 460.32.03      CUDA Version: 11.
|
|-----+-----+-----+
---+
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr
ECC |
| Fan   Temp   Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Compu
M.  |
|=====+=====+=====+
|    0  GeForce GTX 108...   Off   | 00000000:01:00.0 Off  |
N/A |
| N/A    45C    P0      N/A /  N/A |    511MiB /   10206MiB |      0%
Default |
+-----+-----+-----+
---+
+-----+
---+
| Processes:                                     GPU
Memory |
| GPU       PID    Type    Process name                     Usage
|
|=====+=====+=====+

```

Human: ping bbc.com

AI:

...

\$ ping bbc.com

PING bbc.com (151.101.65.81): 56 data bytes

64 bytes from 151.101.65.81: icmp_seq=0 ttl=53 time=14.945 ms

64 bytes from 151.101.65.81: icmp_seq=1 ttl=53 time=14.945 ms

64 bytes from 151.101.65.81: icmp_seq=2 ttl=53 time=14.945 ms

--- bbc.com ping statistics ---

3 packets transmitted, 3 packets received, 0.0% packet loss

round-trip min/avg/max/stddev = 14.945/14.945/14.945/0.000 ms

...

Human: curl -fsSL

"https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r
'tag_name' | sed 's/[^0-9\.\-]*/g'

Assistant:

> Finished LLMChain chain.

...

\$ curl -fsSL "https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r 'tag_name' | sed 's/[^0-9\.\-]*/g'

1.8.1

...

```
output = chatgpt_chain.predict(human_input="lynx
https://www.deepmind.com/careers")
print(output)
```

> Entering new LLMChain chain...

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Overall, Assistant is a powerful tool that can help with a wide range of tasks and provide valuable insights and information on a wide range of topics. Whether you need help with a specific question or just want to have a conversation about a particular topic, Assistant is here to assist.

Human: ping bbc.com

AI:

...

\$ ping bbc.com

PING bbc.com (151.101.65.81): 56 data bytes

64 bytes from 151.101.65.81: icmp_seq=0 ttl=53 time=14.945 ms

64 bytes from 151.101.65.81: icmp_seq=1 ttl=53 time=14.945 ms

64 bytes from 151.101.65.81: icmp_seq=2 ttl=53 time=14.945 ms

--- bbc.com ping statistics ---

3 packets transmitted, 3 packets received, 0.0% packet loss

round-trip min/avg/max/stddev = 14.945/14.945/14.945/0.000 ms

...

Human: curl -fsSL

"https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r
'tag_name' | sed 's/[^0-9\.\-]*/g'

AI:

...

\$ curl -fsSL

"https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r
'tag_name' | sed 's/[^0-9\.\-]*/g'

1.8.1

...

Human: lynx https://www.deepmind.com/careers

Assistant:

```
> Finished LLMChain chain.
```

```
...
```

```
$ lynx https://www.deepmind.com/careers
DeepMind Careers
```

Welcome to DeepMind Careers. We are a world-leading artificial intelligence research and development company, and we are looking for talented people to join our team.

We offer a range of exciting opportunities in research, engineering, product, and operations. Our mission is to solve intelligence and make it useful, and we are looking for people who share our passion for pushing the boundaries of AI.

Explore our current openings and apply today. We look forward to hearing from you.

```
...
```

```
output = chatgpt_chain.predict(human_input="curl
https://chat.openai.com/chat")
print(output)
```

```
> Entering new LLMChain chain...
```

```
Prompt after formatting:
```

```
Assistant is a large language model trained by OpenAI.
```

Assistant is designed to be able to assist with a wide range of tasks, from answering simple questions to providing in-depth explanations and discussions on a wide range of topics. As a language model, Assistant is able to generate human-like text based on the input it receives, allowing it to engage in natural-sounding conversations and provide responses that are coherent and relevant to the topic at hand.

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Human: `curl -fsSL`

```
"https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r
'.tag_name' | sed 's/[^0-9\.\-]*//g'
```

AI:

```
```
```

```
$ curl -fsSL
```

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"https://api.github.com/repos/pytorch/pytorch/releases/latest" | jq -r
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1.8.1
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```
```
```

Human: `curl https://chat.openai.com/chat`

Assistant:

> Finished LLMChain chain.

```
```
```

```
$ curl https://chat.openai.com/chat
<html>
 <head>
 <title>OpenAI Chat</title>
 </head>
 <body>
 <h1>Welcome to OpenAI Chat!</h1>
 <p>
 OpenAI Chat is a natural language processing platform that
 allows you to interact with OpenAI's AI models in a conversational way.
 </p>
 <p>
 To get started, type a message in the box below and press enter.
 </p>
 </body>
</html>
```
```

```
output = chatgpt_chain.predict(
    human_input="""curl --header "Content-Type:application/json" --request
POST --data '{"message": "What is artificial intelligence?"}'
https://chat.openai.com/chat"""
)
print(output)
```

```
> Entering new LLMChain chain...
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Human: curl <https://chat.openai.com/chat>

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\$ curl <https://chat.openai.com/chat>

```
<html>
```

```
  <head>
```

```
    <title>OpenAI Chat</title>
```

```
  </head>
```

```
  <body>
```

```
    <h1>Welcome to OpenAI Chat!</h1>
```

```
    <p>
```

OpenAI Chat is a natural language processing platform that allows you to interact with OpenAI's AI models in a conversational way.

```
  </p>
```

```

    <p>
        To get started, type a message in the box below and press enter.
    </p>
</body>
</html>
...

```

```

Human: curl --header "Content-Type:application/json" --request POST --
data '{"message": "What is artificial intelligence?"}'
https://chat.openai.com/chat
Assistant:

```

```

> Finished LLMChain chain.

```

```

...

```

```

$ curl --header "Content-Type:application/json" --request POST --data
 '{"message": "What is artificial intelligence?"}'
https://chat.openai.com/chat

```

```

{
    "response": "Artificial intelligence (AI) is the simulation of human
intelligence processes by machines, especially computer systems. These
processes include learning (the acquisition of information and rules for
using the information), reasoning (using the rules to reach approximate or
definite conclusions) and self-correction. AI is used to develop computer
systems that can think and act like humans."
}
...

```

```

output = chatgpt_chain.predict(
    human_input="""curl --header "Content-Type:application/json" --request
POST --data '{"message": "I want you to act as a Linux terminal. I will
type commands and you will reply with what the terminal should show. I
want you to only reply with the terminal output inside one unique code
block, and nothing else. Do not write explanations. Do not type commands
unless I instruct you to do so. When I need to tell you something in
English I will do so by putting text inside curly brackets {like this}. My
first command is pwd."}' https://chat.openai.com/chat"""
)
print(output)

```



```
> Entering new LLMChain chain...
```

```
Prompt after formatting:
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```

```
AI:
```

```
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```

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```
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```

```
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```

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```

```
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```

```
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```

```
      To get started, type a message in the box below and press enter.
```

```

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...

```

```

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```

```

AI:

```

```

...

```

```

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```

```

{

```

```

  "response": "Artificial intelligence (AI) is the simulation of human
intelligence processes by machines, especially computer systems. These
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```

```

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```

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```

```

Assistant:

```

```

> Finished LLMChain chain.

```

```

...

```

```

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putting text inside curly brackets {like this}. My first command is

```

```
pwd."}' https://chat.openai.com/chat
```

```
{  
  "response": "``\n/current/working/directory\n```"  
}  
```
```