



# 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)
```

> Entering new LLMChain chain...

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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:

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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!" >> 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

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...

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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)
```

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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:

///

///

1

—

```
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: 11.7
|
|-----+-----+-----+
----+
| GPU   Name               Persistence-M| Bus-Id        Disp.A | Volatile Uncorr
ECC |
| Fan   Temp   Perf    Pwr:Usage/Cap|      Memory-Usage | GPU-Util  Core
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                       Usa
|
|=====+=====+=====+

```

Human: ping bbc.com

Assistant:

&gt; 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: 11.7



```
|
|-----+-----+-----+
---+
| GPU  Name          Persistence-M| Bus-Id          Disp.A | Volatile Uncorr
ECC |
| Fan  Temp  Perf  Pwr:Usage/Cap|          Memory-Usage | GPU-Util  Core
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                               Usa
|

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

```
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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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.

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.

```
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
```

```
AI:
```

```
...
```

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

```
DeepMind Careers
```

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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?"}'
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```

```
{
```

```
  "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."}'
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    <title>OpenAI Chat</title>
  </head>
  <body>
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Assistant:
```

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```
```
```

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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
```

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