

HW 7

February 23, 2024

```
[1]: import openai
import os
import wikipedia
```

1 1.) Set up OpenAI and the environment

```
[2]: api_key = "sk-Q5DUnB75mgs0rvD4h5gLT3B1bkFJSIWQb1ErIa3Dsco6er0v"
openai.api_key = api_key
client = openai.OpenAI(
    api_key=openai.api_key,
)
```

2 2.) Use the wikipedia api to get a function that pulls in the text of a wikipedia page

```
[3]: page_titles = ["Penguin", "Sushi", "Chillies"]
search_results = wikipedia.search(page_titles)
page = wikipedia.page(search_results[0])
```

```
[4]: #Page Content
def get_wikipedia_content(page_titles):
    search_results = wikipedia.search(page_titles)
    page = wikipedia.page(search_results[0])
    return(page.content)
```

```
[5]: content = get_wikipedia_content(page_titles)
```

3 3.) Build a chatgpt bot that will analyze the text given and try to locate any false info

```
[6]: def chatgpt_error_correction(text):
    chat_completions = client.chat.completions.create(
        model = "gpt-3.5-turbo",
        messages = [
```

```

        {"role": "system", "content" : "I will be giving you an article. I
        ↪am looking for any false information. I want to capture all potentially
        ↪false info, if there is even a small potential for it to be wrong, please
        ↪return it. Please concisely list only the false information found. If there
        ↪is no false info only return 'DONE'."},
        {"role": "user", "content": content[:8180]}}
    )
    return (print(chat_completions.choices[0].message.content))

```

4 4.) Make a for loop and check a few wikipedia pages and return a report of any potentially false info via wikipedia

```

[7]: page_titles = ["Penguin", "Sushi", "Chillies"]
    for page_title in page_titles:
        try:
            print("-----" + page_title + "-----")
            content = get_wikipedia_content(page_title)
            chatgpt_error_correction(content)
        except:
            print("ERROR")

```

```

-----Penguin-----
- Galápagos penguins are not the only penguins found north of the Equator, there
are also Humboldt penguins.
- Penguins do not have a spiny tongue.
- There is a false claim that some prehistoric penguin species were as tall or
heavy as adult humans.
- The word penguin is not debated to come from Welsh pen and gwyn.
-----Sushi-----
DONE
-----Chillies-----
- Christopher Columbus was not the first European to encounter Capsicum, as they
were already known in Europe prior to his arrival.
- Capsicum plants originated in modern-day Peru and Bolivia, not Central or
South America.
- The claim that China produced half of the world's raw green chili peppers in
2019 is incorrect.

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