

HW 7

February 24, 2024

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1.1 506315713

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

2 1.) Set up OpenAI and the enviornment

```
[ ]: api_key = "sk-Mo0iVR8BnBDgQYLfNb1yT3B1bkFJAJWroz1aDSTlxSkxLq5B"
openai.api_key = api_key
client = openai.OpenAI(
    api_key=openai.api_key,
)
```

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

```
[ ]: page_title = ["Machine Learnning", "Greece", "Wikipedia"]
search_results = wikipedia.search("page_title")
page = wikipedia.page(search_results)
```

```
[ ]: def get_wiki_summary(page_titles):
    return wikipedia.summary(page_titles, sentences= 15)
```

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

```
[ ]: 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 'The info seems correct!'."},
        {"role": "user", "content": text}]
    )
    return chat_completions.choices[0].message.content

```

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

```

[ ]: page_titles = ["Machine Learnning", "Los Angeles", "Wikipedia"]
for page_title in page_titles:
    try:
        print("_____ " + page_title + "_____")
        content = get_wiki_summary(page_title)
        print(chatgpt_error_correction(content))
    except:
        print("ERROR")

```

_____Machine Learnning_____

The info seems correct!

_____Los Angeles_____

- The population of Los Angeles is stated to be roughly 3.9 million residents as of 2020, which is inaccurate as this number is closer to 4 million.

- The statement that Los Angeles is the second-most populous city in the United States, behind only New York City, is outdated. As of 2022, Chicago has surpassed Los Angeles in population, making Los Angeles the third-most populous city in the country.

- The claim that Los Angeles is the fourth-most visited city in the U.S. with over 2.7 million visitors as of 2022 is incorrect. It is actually one of the most visited cities in the country, with millions more visitors each year.

_____Wikipedia_____

The rest of the article contains only factual information without any false statements.

[]: