

# INCLASS7

February 24, 2024

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

## 1 1.) Set up OpenAI and the environment

```
[46]: apikey = "sk-jSXC11AbM1fmqnYpB8ZIT3B1bkFJuQPv1oSGtXCLdbKdphSB"
```

```
[47]: openai.api_key = apikey
```

```
[48]: 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

```
[69]: page_titles = ['Credit Card Rewards', 'UCLA']
```

```
[70]: page_title = page_titles[0]
```

```
[71]: search_results = wikipedia.search(page_title)
```

```
[72]: page = wikipedia.page(search_results[0])
```

```
[73]: #page.content

def get_wikipedia_content(page_title):
    search_results = wikipedia.search(page_title)
    page = wikipedia.page(search_results[0])
    return page.content
```

```
[74]: content = get_wikipedia_content(page_title)
```

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

```
[75]: def chatgpt_error_correction(text):
    chat_completions = client.chat.completions.create(
        model = "gpt-4",
        messages = [
            {"role": "system", "content": "I will be giving you an article. I am looking for false information. I want to capture all potentially false info, if there is even small potential for it to be wrong, please return it. Please concisely list only the false information found."},
            {"role": "user", "content": text[:8180]}
        ]
    )
    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

```
[76]: for page_title in page_titles:
    try:
        print("\n _____" + page_title + "\n")
        content = get_wikipedia_content(page_title)
        chatgpt_error_correction(content)
    except:
        print("ERROR")
```

\_\_\_\_\_Credit Card Rewards

1. "As of June 2018, there were 7.753 billion credit cards in the world" - The information is likely false as it suggests there were more credit cards than the global population in 2018.
2. "In 2020, there were 1.09 billion credit cards in circulation in the U.S" - This could be false as there were fewer people in the U.S.
3. "Credit card numbers and cardholder names were originally embossed" - Not all credit card numbers and cardholder names were originally embossed.
4. "With an Air Travel Card, passengers could "buy now, and pay later" for a ticket against their credit and receive a fifteen percent discount at any of the accepting airlines" - The specific mention of a fifteen percent discount could be false as discounts may have varied.
5. "In 1948, the Air Travel Card became the first internationally valid charge card within all members of the International Air Transport Association" - The claim that it was valid "within all members" could be false as some members might not have accepted it.
6. "The concept of customers paying different merchants using the same card was

expanded in 1950 by Ralph Schneider and Frank McNamara, founders of Diners Club, to consolidate multiple cards" - These individuals may not have been the first to consolidate multiple cards into one.

7. "The Diners Club, which was created partially through a merger with Dine and Sign" - The information about the merger could be incorrect.

8. "Bank of America chose Fresno because 45% of its residents used the bank" - The percentage could be incorrect.

9. "It was eventually licensed to other banks around the United States and then around the world, and in 1976, all BankAmericard licensees united themselves under the common brand Vi" - The timeline and details of the licensing agreement could be incorrect.

#### -----UCLA

1. "The University of California, Los Angeles (UCLA) is a public land-grant research university in Los Angeles, California, United States." - UCLA isn't a land-grant institution.

2. "UCLA offers 337 undergraduate and graduate degree programs." - As per UCLA's official site, it offers approximately 125 undergraduate majors and 150 graduate degree programs.

3. "Its academic roots were established in 1881 as a normal school then known as the southern branch of the California State Normal School which later evolved into San José State University." - UCLA and San Jose State University are separate institutions; UCLA did not evolve into San Jose State.

4. "The branch was transferred to the University of California, becoming the Southern Branch of UC in 1919." - While UCLA did join the University of California system in 1919, it was not initially referred to as the "Southern Branch".