Week 7 - Laboratory

ECON441B

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

from tmp import api_key
```

1. Set up OpenAI and the environment.

In [ ]:
```
client = openai.Client(
    api_key=api_key()
)
```

2. Use the `wikipedia` API to get a function that pulls in the text of a `wikipedia` page.

In [ ]:
```
# get_wiki = lambda page: wikipedia.page(page).content
get_wiki = lambda term: wikipedia.summary(term, sentences=10)
```

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

In [ ]:
```
def check_info_wikipedia(text, role):
    tmp = client.chat.completions.create(
        model='gpt-3.5-turbo',
        messages=[
            {
                'role': 'system',
                'content': role
            },
            {
                'role': 'user',
                'content': text
            }
        ]
    )
    return tmp.choices[0].message.content
```

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

In [ ]:
```
terms = [
    'Bootstrap',
    'Statistics',
    'Stationarity',
]
```

In [ ]:
```
temp_role_definition = f"""
- You have to locate FALSE information from a a serie of sentences.
- If a sentence seems TRUE, return 1, otherwise return 0.
- If you are not sure, return a value between 0 and 1 that represents your confidence level.
- Return the sequence of values like a python list.
"""
```

In [ ]:
```
responses = []

for t in terms:
    print(f'Checking veracity for: {t} ...')
    responses.append(
        check_info_wikipedia(
            get_wiki(t),
            temp_role_definition
        )
```

```
    )
    print(responses[-1])
```

```
Checking veracity for: Bootstrap ...
[1, 1, 0]
Checking veracity for: Statistics ...
[
1,
1,
1,
1,
0,
1,
1,
0,
1,
1,
1,
1,
1,
1,
1,
1,
1
]
Checking veracity for: Stationarity ...
[1, 1, 1, 0, 1, 0, 1, 1, 1, 1]
```