

DATA THIEVES PROJECT

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Data Analytics
Part-time Course

GOAL

HELP A PERSON CHOOSING A BOOK FROM "THE BEST OF THE BEST"

New York Times Best Sellers

Our Project

Amazon Books





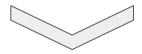
PRODUCT



Select one Best seller list



The APP will bring the TOP 5 books



Choose the book and click to read more about it



API CONNECTION

The New Hork Times

METHODOLOGY

- → Best Sellers API comes with several functions
- → "Overview" retrieves the top 5 for all categories
- → Right now, the API returns more than 50 books in at least 10 categories
- → All the categories were analysed to be included on the project





WEB SCRAPING



METHODOLOGY

Read the CSV file saved on API code



Pick the
headers to be
able to
scraping the
Amazon
website



Working on a function to get the informations (Price, review and review count)



Merge the TOP 5 API file with scraping file



Output to select the books categories



WEB SCRAPING



FUNCTION METHODOLOGY

Connection to web scrape the amazon website



Then to pick the informations TRY and EXCEPT are used

```
def book_function(url_data):

    data=[]

for url_2 in url_data['URL']: #[:4]: slicing only the top 4
        time.sleep(3)
        amazon = requests.get(url_2, headers=headers)
        content = amazon.content
        soup = BeautifulSoup(content)
```

```
try:
    price =(soup.find('span', attrs = {'class':'a-size-base a-color-price a-color-price'}).get_text()).strip().repl
except:
    #price = 'Nothing'
    try:
        price =(soup.find('span', attrs = {'class':'slot-price'}).get_text()).strip().replace('$', '')
    except:
        try:
            price = (soup.find('span', attrs = {'class':'a-size-base a-color-secondary'}).get_text()).strip().repla
    #price = 'Nothing'
    except:
        price = 'Nothing'
```



NEXT STEPS

CONCLUSIONS

- → Create a API for easier access to everyone to run the program;
- → Automatization of the API and the Web Scraping codes to retrieve the updated info from the NYTimes and Amazon Books;
- → Connect with more data sources;
- → Create a recommendation system based on machine learning;
- → Improve Amazon web scraping;
- → More detailed documentation on the GitHub.





ANY QUESTION?

https://github.com/thaisternus/project-week-3-data-thieves

THANK YOU!

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