



Data Science Unit 4 Accessing Data From the Internet

М

Before we start...

- → Make sure you are comfortable
- → Have water and maybe a strong coffee handy
- → If you need a break... take it!
- → If you need a stretch please go ahead!
- → Please mute yourselves if you are not talking
- → Have your video on at all times

...and let's get started!





In this session we will...

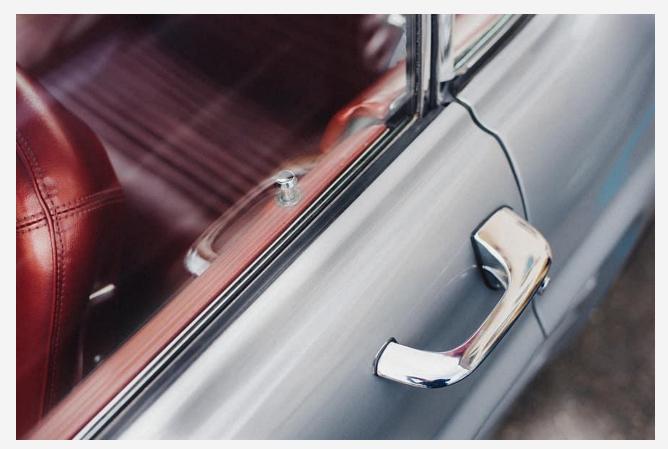
- Define APIs and Web Scraping
- 2. **Investigate** APIs and see how they work
- 3. Build a web scraper using BeautifulSoup.

ииltiverse





What is an API?





Web API





Famous APIs





Famous APIs





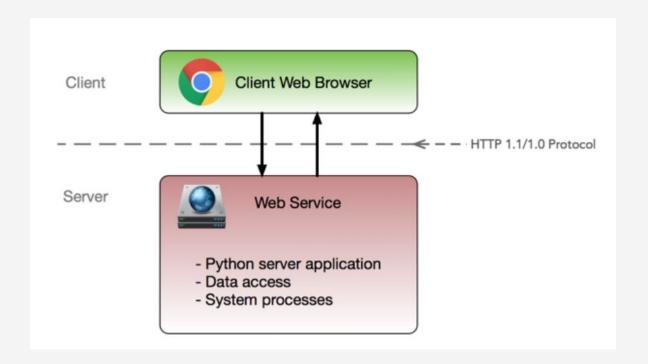
Making API Calls







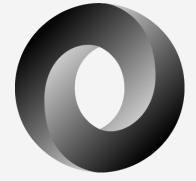
M HTTP





JavaScript







Let's Practice



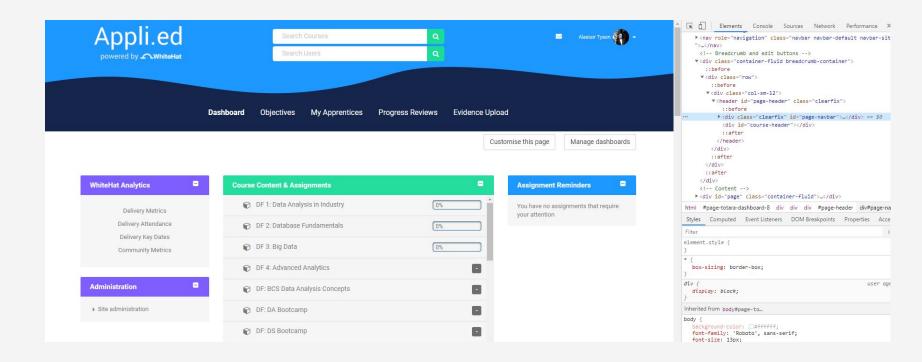




BeautifulSoup



M HTML







<div>

<h1>

<a>>

>

<l

Along came a Spider...

```
# convert this into a soup object
soup = BeautifulSoup(html.text, 'html.parser')
```

```
# print the restaurant names
soup.find_all(name='span', attrs={'class':'rest-row-name-text'})
```

```
# for each element you find, print out the restaurant name
for entry in soup.find_all(name='span', attrs={'class':'rest-row-name-
    print(entry.text)
```



Warning





Let's Practice