



Assignment Prompt: Retail Store Location Scraper

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Problem Statement:

As a data scientist, it's important to know how to scrape data from various sources, including websites. For this assignment, your task is to scrape the locations of your favorite retail brand in India and extract the following information:

- Store
- Name
- Address
- Timings
- Coordinates (Latitude/Longitude) (bonus)
- Phone Number

You can use any programming language of your choice, but we recommend using Python. Once you have extracted the data, you will need to store it in a CSV file and upload it to a GitHub repository alongside with the code.

Here are the steps to follow:

- Identify your favorite retail brand with stores in India. Pick something that you enjoy buying things from.
- 2. Use web scraping techniques to extract the store locations, store name, address, timings, coordinates, and phone number from the website. It's usually tricky to get the coordinates so it's a fun challenge to see if you can do it.

Spencer's Retail Ltd.

- Spencer's Retail Limited, part of RP Sanjiv Goenka Group, is a multi-format retailer providing a wide range of quality products across categories such as food, personal care, fashion, home essentials, electrical and electronics to its key consumers. Specialty sections such as Spencer's Gourmet, Patisserie, Wine and Liquor, and the recently launched Epicuisine section are some of the key differentiators in our hypermarket stores.
- Spencer's, being one of the earliest entrants into the retail space in India, introduced the Indian consumer to the concept of organized retailing. The first ever hypermarket in India was launched by Spencer's in Hyderabad in 2000. Today, Spencer's runs 120 stores, including 37 Hyper stores in over 35 cities in India.
- Spencer's brand positioning – Makes Fine Living Affordable – embodies its philosophy of delighting shoppers with the best products and services that enable a fine living at reasonable prices, while providing them with a warm, friendly and educational retail environment.

Conceptual Background of the Domain Problem

It thus becomes obvious that domain knowledge is important for both Framework as well as the body of a data science project. It will make the project faster, cheaper and more likely to yield a useful answer.

Assumptions related to the problem under consideration

As we mentioned above this is a web scraping problem. According to problem we have to scrap details from any Retail Stores.

The assumptions that we used are mentioned below:

1. Check which types of website we have to scrape. This is first step that we have to take and it is also most important because of our all work depend on this. Read Data Source Page carefully, find HTML Tag which are required for us.
2. First we Import required libraries i.e.
 - BeautifulSoup
 - Import Request.get method for extract responses,
 - Pandas for structured data,
 - CSV Module for save all data into csv file in a proper format.

Challenges

The challenges that I had faced are as under:

- I am not very much familiar with HTML Script.
- Finding of right tag for scarp specific data.
- Many time I have faced same tag contained multiple data/details which are required for our tasks.
- I have faced difficulties during latitude and longitude.
- After extracting all data using different-different tools, methods and functionality now we have to save all data in CSV file in a structured format