

Write a python code to scrap Samsung mobile phones name and pricelist using requests.get()

https://www.daraz.com.np/catalog/?spm=a2a0e.tm80335409.search.d_go&q=samsung%20mobile%20phones

1. Import Libraries

- import requests
- import pandas as pd
- requests → allows your Python code to **send HTTP requests** (like a browser) and get the website's data.
- pandas → allows you to **store and manipulate the scraped data** in a structured format (DataFrame) and later save it to CSV or Excel.

2. Set the API URL

- API_URL =
"https://www.daraz.com.np/catalog/?spm=a2a0e.tm80335409.search.d_go&q=samsung%20mobile%20phones"
- This is the **main search URL** for Daraz (Nepal) for **Samsung mobile phones**.
- This URL simulates what a browser would open when you search for "Samsung mobile phones" on Daraz.

3. Define Query Parameters

- params = { "ajax": "true", "q": "samsung mobile phones", "spm": "a2a0e.tm80335409.search.d_go", "_keyori": "ss", "from": "input"}
- These are **GET parameters** that the website expects to return **JSON data** instead of the full HTML page.
- **Explanation of key params:**
 - "ajax": "true" → tells the site to return JSON data (like an API response), not full HTML.
 - "q" → the search query ("samsung mobile phones").
 - "spm" → site-specific parameter used internally for tracking clicks.

- "_keyori" → usually indicates search origin ("ss" = search string).
- "from" → source of the search input.
- These parameters mimic what the browser sends when you type a query in Daraz.

4. Send the Request

```
response = requests.get(API_URL, params=params, headers=headers)
```

- `requests.get()` sends a **GET request** to the website.
- `params=params` → attaches the query parameters to the URL.
- `headers=headers` → adds the browser header.
- `response` → contains the server's reply (JSON in this case).

5. Parse JSON Data

- `data = response.json()`
- Converts the server response into a **Python dictionary**.
- Daraz's `ajax=true` response is JSON, so `response.json()` gives us structured data.

6. Extract the List of Items

- `items = data.get("mods", {}).get("listItems", [])`
- `data.get("mods", {})` → looks inside the "mods" key safely (returns {} if it doesn't exist).
- `.get("listItems", [])` → gets the list of products.
- If either key is missing, it safely returns an **empty list**.
- `items` now contains **all product information** returned by the search API.

7. Initialize Lists to Store Data

- `names = []`
- `prices = []`

- `links = []`
- We create empty lists to **store the product name, price, and link** for each item.
- These lists will later be combined into a DataFrame.

8. Create a Pandas DataFrame

- `df = pd.DataFrame({ "Name": names, "Price": prices, "URL": links})`
- Converts the lists into a **table-like structure** (DataFrame).
- Columns: Name, Price, URL
- Each row corresponds to **one product**.

Fullcode:

```
import requests

import pandas as pd

API_URL =
"https://www.daraz.com.np/catalog/?spm=a2a0e.tm80335409.search.d_go&q=samsung%20mobile%20
phones"

#query Parameters: These values simulate what the browser passes internally. Daraz uses ajax=true to
return JSON response
params = {
    "ajax": "true",
    "q": "samsung mobile phones",
    "spm": "a2a0e.tm80335409.search.d_go",
    "_keyori": "ss",
    "from": "input"
}

headers = { "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64)"}
```

```
}

response = requests.get(API_URL, params=params, headers=headers)

data = response.json()
items = data.get("mods", {}).get("listItems", [])

names = []
prices = []
links = []

for it in items:

    name = it.get("name")
    price = it.get("priceShow")

    # Safe product URL handling
    url_part = it.get("productUrl")
    if url_part:
        full_url = "https:" + url_part
    else:
        full_url = None # or "" if you prefer

    names.append(name)
    prices.append(price)
    links.append(full_url)

df = pd.DataFrame({
    "Name": names,
    "Price": prices,
    "URL": links
})
df
```

	Name	Price	URL
0	Samsung Galaxy A07 (4GB RAM + 64GB) 6.7" 90Hz... Samsung Galaxy A17 5G (8GB RAM + 256GB) 90Hz...	Rs. 15,999 Rs. 34,999	None None
1	Samsung Galaxy A17 5G (6GB RAM + 128GB) 90Hz... Samsung Galaxy A56 5G (12GB/256GB) 6.7" 120H...	Rs. 28,999 Rs. 70,999	None None
2	Samsung Galaxy A07 (6GB RAM + 128GB) 6.7" 90... Samsung Galaxy A07 LITE (6GB/128GB) 6.7" Sup...	Rs. 19,999 Rs. 19,999	None None
3	Samsung Galaxy A17 5G (8GB/128GB) 6.7" S-AMO... Samsung Galaxy A07 LITE (4GB/64GB) 6.7" Supe...	Rs. 30,999 Rs. 15,999	None None
4	Samsung Galaxy A56 5G (8GB/256GB) 6.7" 120Hz... Samsung Galaxy A17 5G (8GB/256GB) 6.7" S-AMO...	Rs. 65,999 Rs. 34,999	None None
5	Samsung Galaxy A36 5G (8GB/128GB) 6.7" sAMOL... Samsung Galaxy A07 (4GB RAM + 128GB) 6.7" 90...	Rs. 48,999 Rs. 17,999	None None
6	Samsung Galaxy A56 (8GB+256GB) With 25W Adapte... Samsung Galaxy M16 5G (6GB/128GB) 6.7" S-AMO...	Rs. 65,999 Rs. 26,999	None None
7	Samsung Galaxy M36 5G (8GB/128GB) 6.7-inch A... Samsung Galaxy S25 Ultra 5G AI Smartphone 6....	Rs. 36,999 Rs. 184,999	None None
8			
9			
10			
11			
12			
13			
14			
15			