

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](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%20phones"
```

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