

Nike Jordans WebScrapping

```
In [1]: import requests
        from bs4 import BeautifulSoup
        import pandas as pd
```

- requests library will give us the content from the given Uri.
- By Using BeautifulSoup library we can extract and parse data from HTML files.
- Use requests and BeautifulSoup for scraping and parsing data from the Web.
- Pandas makes it easy to scrape a table (tag) on a web page.
- After obtaining it as a DataFrame, we can save it as an Excel file or csv file.

```
In [2]: url = "https://www.nike.com/in/w/mens-jordan-shoes-37eefznk1zy7ok"
```

- we will use the above url for scrapping the data with the help of requests library.
- If we get '200' response then we can scrap the page

```
In [3]: response = requests.get(url)
        print(response)

<Response [200]>
```

```
In [4]: soup = BeautifulSoup(response.text)
        soup
```

```
Out[4]: <!DOCTYPE html>
<html lang="en-IN"><head><script id="new-relic-browser-agent" type="text/javascript">window.NREUM||(NREUM={});NREUM.info =
{"agent":"","beacon":"bam.nr-data.net","errorBeacon":"bam.nr-data.net","licenseKey":"NRBR-26d48a12bc762b8fbd7","applicationI
D":"45012625","agentToken":null,"applicationTime":266.237751,"transactionName":"ZVdXbUtXXBIHVUNFXlWde1ZLW1MND0xSUmRAWxoT","qu
eueTime":0,"ttGuid":"5a383373cafe7ff1"}; (window.NREUM||(NREUM={})).init={privacy:{cookies_enabled:true},ajax:{deny_list:["ba
m-cell.nr-data.net"]}},distributed_tracing:{enabled:true,allowed_origins:["https://insights-collector.newrelic.com"],cors_use_
newrelic_header:true,cors_use_tracecontext_headers:true}};(window.NREUM||(NREUM={})).loader_config={agentID:"45722989",accoun
tID:"714737",trustKey:"1631518",xid:"UwcDV1VUGwcFVFBQAQMC",licenseKey:"NRBR-26d48a12bc762b8fbd7",applicationID:"4501262
5"};/*! For license information please see nr-loader-spa-1.238.0.min.js.LICENSE.txt */
(()=>{"use strict";var e,t,r={5763:(e,t,r)={r.d(t,{p:()=>f,Mt:()=>p,C5:()=>s,DL:()=>v,OP:()=>T,lf:()=>D,Yu:()=>y,Dg:()=>h,C
X:()=>c,GE:()=>b,sU:()=>_});var n=r(8632),i=r(9567);const o={beacon:n.ce.beacon,errorBeacon:n.ce.errorBeacon,licenseKey:void
0,applicationID:void 0,sa:void 0,queueTime:void 0,applicationTime:void 0,ttGuid:void 0,user:void 0,account:void 0,product:voi
d 0,extra:void 0,jsAttributes:{},userAttributes:void 0,atts:void 0,transactionName:void 0,tNamePlain:void 0},a={};function s
(e){if(!e)throw new Error("All info objects require an agent identifier!");if(!a[e])throw new Error("Info for ".concat(e," wa
s never set"));return a[e]}function c(e,t){if(!e)throw new Error("All info objects require an agent identifier!");a[e]=(0,i.
D)(t,o),(0,n.Qy)(e,a[e],"info")}var u=r(7056);const d=(e)={const e={blockSelector:"[data-nr-block]",maskInputOptions:{passwor
d:!0}};return{allow_bfcache:!0,privacy:{cookies_enabled:!0},ajax:{deny_list:void 0,block_internal:!0,enabled:!0,harvestTimeSe
conds:10}},distributed_tracing:{enabled:void 0,exclude_newrelic_header:void 0,cors_use_newrelic_header:void 0,cors_use_traceco
nnext_headers:void 0,allowed_origins:void 0},session:{domain:void 0,expiresMs:u.oD,inactiveMs:u.Hb},ssl:void 0,obfuscate:void
0,block_selector:"[data-nr-block]",mask_input_options:{password:!0}}}
```

- BeautifulSoup will parse the above document.

```
In [5]: shoe_elements = soup.find("div", class_="product-grid")
        shoe_elements
```

```
<div class="product-grid">
  <div class="product-card">
    <img alt="Jordan Max Aura 5 Men's Shoes" class="product-card_hero-image css-1fxh5tw height=400 loading=lazy width=400"/>
    <div class="product-card_info disable-animations">
      <div class="product-card_title">Jordan Max Aura 5</div>
      <div class="product-card_subtitle">Men's Shoes</div>
      <div class="product-card_count-wrapper">
        <div class="product-card_count-item">
          <button aria-expanded=false class="product-card_colorway-b
            tn" data-testid="product-card_colorway-btn" type="button">Available in 4 Colors</button>
        </div>
        <div class="product-card_animation_wrapper">
          <div class="product-card_price-wrapper">
            <div class="product-card_price">MRP : ₹ 11 895.00</div>
          </div>
          <div class="product-card_price_in_styling is--current-price css-11s12ax">
            <div class="product-card_price">₹ 11 895.00</div>
          </div>
          <div class="product-card_image">
            <img alt="Jordan Retro 6 G Men's Golf Shoes" class="product-card_hero-image css-1fxh5tw height=400 loading=lazy width=400"/>
          </div>
          <div class="product-card_info disable-animations">
            <div class="product-card_title">Jordan Retro 6 G</div>
            <div class="product-card_subtitle">Men's Golf Shoes</div>
          </div>
        </div>
      </div>
    </div>
  </div>
```

- We will find the div tag using soup.find and use "product-grid" class to get required data and store it in 'shoe_elements' variable.

```
In [6]: shoe_elements = soup.find_all('div', class_='product-card')
shoe_elements
```

```
Out[6]: [<div class="product-card product-grid_card css-1xl2eyj" data-product-position="1" data-testid="product-card"><div class="product-card__body" data-el-type="Card" data-testid="product-card__body"><figure><a class="product-card__link-overlay" data-testid="product-card__link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160" tabindex="-1">Jordan Max Aura 5</a><a aria-label="Jordan Max Aura 5" class="product-card__img-link-overlay" data-el-type="Hero" data-testid="product-card__img-link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160"><div class="wall-image-loader css-1la3v4n" data-testid="wall-image-loader"><img alt="Jordan Max Aura 5 Men's Shoes" class="product-card__hero-image css-1fxh5tw" loading="lazy" width="400"/></div></a><div class="product-card__info disable-animations"><div class=""><div class="product-card__titles"><div class="product-card__title" id="Jordan Max Aura 5" role="link">Jordan Max Aura 5</div><div class="product-card__subtitle" role="link">Men's Shoes</div></div></div><div class="product-card__count-wrapper false false" data-testid="product-card__count-wrapper"><div class="product-card__count-item"><button aria-expanded="false" class="product-card__colorway-btn" data-testid="product-card__colorway-btn" type="button"><div aria-label="Available in 4 Colors" class="product-card__product-count font-override_body1">4 Colours</div></button></div></div><div class="product-card__animation-wrapper"><div class="product-card__price-wrapper"><div class="product-card__price" data-testid="product-card__price" role="link"><div class="product-price__wrapper css-1q1feg0"><div class="product-price in_styling is--current-price css-1ls12ax" data-testid="product-price" role="link">MRP : ₹ 11 895.00</div></div></div></div></div></div></figure></div></div><div class="product-card product-grid_card css-1xl2eyj" data-product-position="2" data-testid="product-card"><div class="product-card__body" data-el-type="Card" data-testid="product-card__body"><figure><a class="product-card__link-overlay" data-testid="product-card__link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160" tabindex="-1">Jordan Max Aura 5</a><a aria-label="Jordan Max Aura 5" class="product-card__img-link-overlay" data-el-type="Hero" data-testid="product-card__img-link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160"><div class="wall-image-loader css-1la3v4n" data-testid="wall-image-loader"><img alt="Jordan Max Aura 5 Men's Shoes" class="product-card__hero-image css-1fxh5tw" loading="lazy" width="400"/></div></a><div class="product-card__info disable-animations"><div class=""><div class="product-card__titles"><div class="product-card__title" id="Jordan Max Aura 5" role="link">Jordan Max Aura 5</div><div class="product-card__subtitle" role="link">Men's Shoes</div></div></div><div class="product-card__count-wrapper false false" data-testid="product-card__count-wrapper"><div class="product-card__count-item"><button aria-expanded="false" class="product-card__colorway-btn" data-testid="product-card__colorway-btn" type="button"><div aria-label="Available in 4 Colors" class="product-card__product-count font-override_body1">4 Colours</div></button></div></div><div class="product-card__animation-wrapper"><div class="product-card__price-wrapper"><div class="product-card__price" data-testid="product-card__price" role="link"><div class="product-price__wrapper css-1q1feg0"><div class="product-price in_styling is--current-price css-1ls12ax" data-testid="product-price" role="link">MRP : ₹ 11 895.00</div></div></div></div></div></div></figure></div></div><div class="product-card product-grid_card css-1xl2eyj" data-product-position="2" data-testid="product-card"><div class="product-card__body" data-el-type="Card" data-testid="product-card__body"><figure><a class="product-card__link-overlay" data-testid="product-card__link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160" tabindex="-1">Jordan Max Aura 5</a><a aria-label="Jordan Max Aura 5" class="product-card__img-link-overlay" data-el-type="Hero" data-testid="product-card__img-link-overlay" href="https://www.nike.com/in/t/jordan-max-aura-5-shoes-ZBZ4Pz/DZ4353-160"><div class="wall-image-loader css-1la3v4n" data-testid="wall-image-loader"><img alt="Jordan Max Aura 5 Men's Shoes" class="product-card__hero-image css-1fxh5tw" loading="lazy" width="400"/></div></a><div class="product-card__info disable-animations"><div class=""><div class="product-card__titles"><div class="product-card__title" id="Jordan Max Aura 5" role="link">Jordan Max Aura 5</div><div class="product-card__subtitle" role="link">Men's Shoes</div></div></div><div class="product-card__count-wrapper false false" data-testid="product-card__count-wrapper"><div class="product-card__count-item"><button aria-expanded="false" class="product-card__colorway-btn" data-testid="product-card__colorway-btn" type="button"><div aria-label="Available in 4 Colors" class="product-card__product-count font-override_body1">4 Colours</div></button></div></div><div class="product-card__animation-wrapper"><div class="product-card__price-wrapper"><div class="product-card__price" data-testid="product-card__price" role="link"><div class="product-price__wrapper css-1q1feg0"><div class="product-price in_styling is--current-price css-1ls12ax" data-testid="product-price" role="link">MRP : ₹ 11 895.00</div></div></div></div></div></div></figure></div></div>
```

- We will find the div tag using soup.find and use "product-card" class to get required data and store it in 'shoe_elements' variable.

```
In [7]: names = []
prices = []

for shoe in shoe_elements:
    name = shoe.find('div', class_='product-card__title')
    price = shoe.find('div', class_='product-price')

    names.append(name)
    prices.append(price)
```

- This code extracts the names and prices of shoes from a web page by searching for specific HTML elements with corresponding CSS classes and stores them in two separate lists.

```
In [8]: Shoes = {'Name': names, 'Price': prices}
```

- A dictionary named Shoes is created, where the column names are used as keys, and the corresponding lists of values are used as values.

```
In [9]: data = pd.DataFrame(Shoes)
data
```

```
Out[9]:
```

| | Name | Price |
|----|--------------------------------|---------------------|
| 0 | [Jordan Max Aura 5] | [MRP : ₹ 11 895.00] |
| 1 | [Jordan Retro 6 G] | [MRP : ₹ 19 695.00] |
| 2 | [Air Jordan 1 Low] | [MRP : ₹ 8 995.00] |
| 3 | [Jordan Stay Loyal 2] | [MRP : ₹ 10 295.00] |
| 4 | [Air Jordan Low SE] | [MRP : ₹ 10 295.00] |
| 5 | [Air Jordan 1 Low OG] | [MRP : ₹ 12 795.00] |
| 6 | [Jordan One Take 4 PF] | [MRP : ₹ 8 695.00] |
| 7 | [Air Jordan 1 Mid SE] | [MRP : ₹ 12 295.00] |
| 8 | [Air Jordan 5 Retro SE Craft] | [MRP : ₹ 19 295.00] |
| 9 | [Air Jordan 6 Retro] | [MRP : ₹ 18 395.00] |
| 10 | [Air Jordan 7 Retro] | [MRP : ₹ 18 395.00] |
| 11 | [AJKO 1] | [MRP : ₹ 12 795.00] |
| 12 | [Air Jordan 1 Retro High OG] | [MRP : ₹ 16 995.00] |
| 13 | [Jordan Why Not .6 PF] | [₹ 13 297.00] |
| 14 | [Air Jordan I High G] | [MRP : ₹ 16 995.00] |
| 15 | [Air Jordan XXXVIII PF] | [MRP : ₹ 18 395.00] |
| 16 | [Air Jordan 2 Retro Low Tifan] | [₹ 19 277.00] |
| 17 | [Air Jordan 1 Mid SE] | [MRP : ₹ 12 295.00] |
| 18 | [Air Jordan 1 Zoom CMFT 2] | [MRP : ₹ 13 295.00] |
| 19 | [Air Jordan XXXVIII 'FIBA' PF] | [MRP : ₹ 18 395.00] |
| 20 | [Air Jordan Legacy 312 Low] | [MRP : ₹ 12 995.00] |
| 21 | [Air Jordan 1 Mid SE] | [MRP : ₹ 12 295.00] |
| 22 | [Air Jordan 1 Low SE Craft] | [MRP : ₹ 10 295.00] |
| 23 | [Air Jordan 1 'Next Chapter'] | [MRP : ₹ 18 395.00] |

- The 'Shoes' dictionary is passed to the pd.DataFrame() function to create a Pandas DataFrame named 'data'.

```
n [10]: csv_file = 'nike_jordan_shoes.csv'
data.to_csv(csv_file, index=False)
```

- Here, We will convert 'data' dataframe into csv file
- The index parameter is set to False to exclude the index column from the saved CSV file.