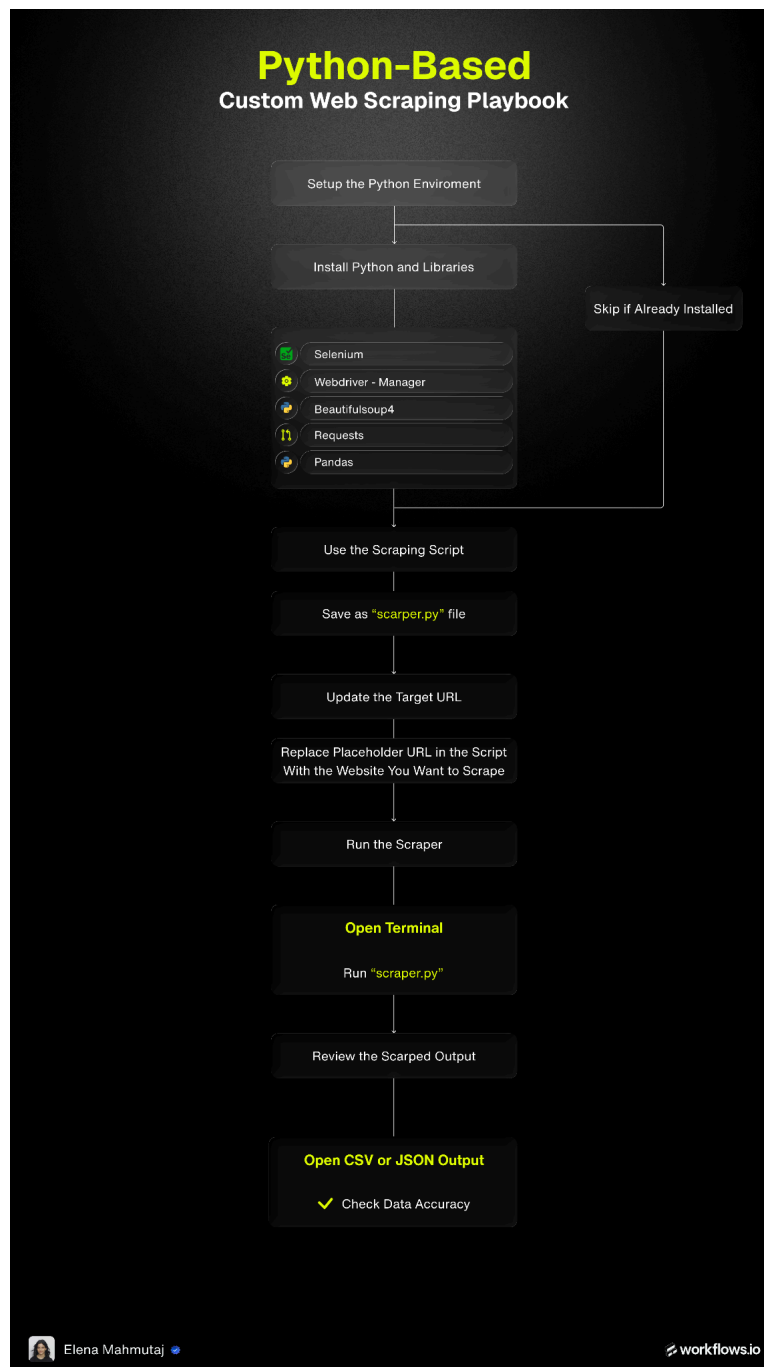


# Python-Based Custom Web Scrapping Playbook



## How it works?

If the website you want to scrape is publicly accessible, you can write a Python script and run it locally using an IDE like VS Code, Cursor or directly from the command line.

### Prerequisites

Before running the script, make sure your environment is properly set up.

1. Install Python
  - a. Download Python from: <https://www.python.org/downloads/>
  - b. During installation, check “Add Python to PATH”
  - c. Verify the installation using this command in the terminal:  
python -- version  
If Python is installed correctly, you’ll see the version number.
2. Install Required Libraries
  - a. Open Command Line (Windows) or Terminal (Mac / Linux) and run:

```
pip install selenium
pip install webdriver-manager
pip install beautifulsoup4
pip install requests
pip install pandas
```

These libraries allow you to:

- Control a browser (Selenium)
- Parse HTML (BeautifulSoup)
- Make HTTP requests
- Export data to CSV or JSON

3. Install Chrome WebDriver

Since this script automates Chrome, you need ChromeDriver.

You have two options:

- Option A (Recommended): Let Selenium manage it automatically
- Option B: Download manually from <https://chromedriver.chromium.org/>

## How to Use the Script

### Step 1: Save the Script

Copy the example code shared below and save it as `scraper.py`

### Step 2: Modify the Target URL

Inside the script, replace the URL with your target website:

```
url = "YOUR_TARGET_WEBSITE_URL_HERE"
```

### Step 3: Run the Script

From the folder where the file is saved:

```
python scraper.py
```

### Step 4: Access the Output Files

Once the script finishes, you'll find:

- `walmart_brands.json`
- `walmart_brands.csv`

Both files will be saved in the same directory as the script.

## Understanding the Example Code

This example scrapes brand names and URLs from Walmart's brand directory.

You can use it for other websites by modifying:

- URL: the target websites
- Selectors: XPath or CSS Selectors
- Data fields: names, links, emails, phone numbers

If you're unsure about selectors, inspect the page in Chrome or ask Claude to help you find them on the website.

## Example Python Scraper Code

Code Link:

<https://github.com/Workflowsio/workflows/blob/main/playbooks/python-scraping-script.py>

## Troubleshooting Common Issues

### 1. Python is not recognised as a command

- Python was not added to your system PATH during installation
- Reinstall Python and make sure to select "Add Python to PATH"
- Verify by running: `python --version`

### 2. No module named selenium

- Selenium is not installed in your environment
- Run:  
`pip install selenium`
- If it still fails, try:  
`pip3 install selenium`

### 3. Chrome browser opens, but nothing happens

- The website may have anti-bot or bot-detection mechanisms
- Add delays using `time.sleep()` between actions
- Use explicit waits instead of fixed sleeps where possible
- Ask Claude to update the script with basic stealth or human-like behaviour

### 4. Script crashes with timeout errors

- Increase wait or timeout values in the script
- Make sure your internet connection is stable
- The website's DOM structure may have changed, requiring selector updates