

```
In [54]: from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from bs4 import BeautifulSoup
import pandas as pd
```

```
In [55]: driver = webdriver.Chrome()
```

```
In [56]: driver.get('https://www.flipkart.com/search?q=ac&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=off')
```

```
In [57]: soup = BeautifulSoup(driver.page_source, 'html.parser')
# soup
```

```
In [58]: div_ = soup.findAll('div', {'class': 'tUxRFH'})[0]
```

```
In [59]: # div_
```

```
In [60]: name_element = div_.find('div', {'class': 'KzDlHZ'})
name_ = name_element.text if name_element else None
# name_
rating_element = div_.find('div', {'class': 'XQDdHH'})
rating_ = rating_element.text if rating_element else None
# rating_
price_element = div_.find('div', {'class': 'Nx9bqj_4b5DiR'})
price_ = price_element.text if price_element else None
# price_
original_price_element = div_.find('div', {'class': 'yRaY8j_ZYwLA'})
original_price_ = original_price_element.text if original_price_element else None
# original_price_
discount_element = div_.find('div', {'class': 'Nx9bqj_4b5DiR'})
discount_ = discount_element.text[:3] if discount_element else None
# discount_
features_element = div_.find('ul', {'class': 'G4BRas'})
features_ = features_element.text if features_element else None
# features_

[name_, rating_, price_, original_price_, discount_, features_]
```

```
Out[60]: ['CARRIER 1 Ton 3 Star Split Inverter AC - White',
'3.9',
'₹29,990',
'₹56,990',
'₹29',
'Annual Power Usage: 704.46 WRoom Size: 90 sqft or Below1 Year Warranty on Product, 5 Years Warranty on PCB and 10 Year
s Warranty on Compressor']
```

```
In [61]: def get_div_info(div_):
name_element = div_.find('div',{'class':'KzDlHZ'})
name_ = name_element.text if name_element else None
name = name_.split('-')[0].strip() if '-' in name_ else name_

rating_element = div_.find('div',{'class':'XQDdHH'})
rating_ = rating_element.text if rating_element else None
rating = rating_ if rating_ else 'None'

price_element = div_.find('div',{'class':'Nx9bqj_4b5DiR'})
price_ = price_element.text if price_element else None
price = price_ if price_ else 'None'

original_price_element = div_.find('div',{'class':'yRaY8j_ZYYwLA'})
original_price_ = original_price_element.text if original_price_element else None
original_price = original_price_ if original_price_ else 'None'

discount_element = div_.find('div',{'class':'UkUFwK'})
discount_ = discount_element.text[:3] if discount_element else None
discount = discount_ if discount_ else 'None'

features_element = div_.find('ul',{'class':'G4BRas'})
features_ = features_element.text if features_element else None
features = features_ if features_ else 'None'

return [name, rating, price, original_price, discount, features]
```

```
In [62]: div_info_list = []
for div_ in soup.findAll('div', {'class':'tUxRFH'}):
    div_info_list.append(get_div_info(div_))
```

```
In [63]: div_info_list

['IFB AI Convertible 8',
'3.8',
'₹34,990',
'₹62,990',
'44%',
'Annual Power Usage: 991.28 WRoom Size: 111 - 150 sqft1 Year Warranty on Product, 5 Years Warranty on PCB and 10 Years Warranty on Compressor'],
['Daikin 2023 Model 1.5 Ton 3 Star Split Inverter AC with PM 2.5 Filter',
'4.1',
'₹36,990',
'₹58,400',
'36%',
'Annual Power Usage: 966.47 kWhRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor and 5 Years Warranty on PCB (Printed Circuit Board)'],
['Voltas 1.5 Ton 3 Star Split Inverter AC',
'3.9',
'₹32,990',
'₹62,990',
'47%',
'Annual Power Usage: 975.26 WRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor']
```

```
In [64]: df = pd.DataFrame(div_info_list, columns=['Name', 'Rating', 'Current Price', 'Original Price', 'Discount', 'Features'])
```

```
In [65]: df
```

11	LG AI Convertible 6	4.1	₹37,690	₹78,990	52%	Annual Power Usage: 852.44 WRoom Size: 111 - 1...
12	Blue Star 1.5 Ton 5 Star Split Inverter AC	4.1	₹43,990	₹74,000	40%	Annual Power Usage: 770.98 WRoom Size: 111 - 1...
13	ONIDA 2023 Model 1.5 Ton 5 Star Split Inverter AC	4.2	₹33,490	₹50,900	34%	Annual Power Usage: 779.15 kWhRoom Size: 111 - ...
14	Voltas 2 Ton 3 Star Split Inverter AC	3.9	₹43,990	₹79,990	45%	Annual Power Usage: 1207.93 WRoom Size: 151 - ...
15	IFB AI Convertible 8	3.8	₹39,990	₹71,990	44%	Annual Power Usage: 706.85 WRoom Size: 111 - 1...
16	Blue Star 2023 Model 1.5 Ton 3 Star Split Inve...	3.9	₹35,990	₹61,250	41%	Annual Power Usage: 1006.84 kWhRoom Size: 111 ...
17	Lloyd 1.5 Ton 5 Star Split Inverter AC	4.1	₹39,990	₹66,990	40%	Annual Power Usage: 715.07 WRoom Size: 111 - 1...
18	Panasonic 7 in 1 Convertible with True AI Mode...	4.1	₹44,990	₹63,400	29%	Annual Power Usage: 774.19 WRoom Size: 111 - 1...
19	Lloyd 1.5 Ton 3 Star Split Inverter AC	4.1	₹32,990	₹58,990	44%	Annual Power Usage: 941.66 WRoom Size: 111 - 1...
20	Hisense 2024 Model 1.5 Ton 3 Star Split Invert...	4.1	₹29,990	₹48,000	37%	Annual Power Usage: 959.9 WRoom Size: 111 - 15...
21	SAMSUNG Convertible 5	4.1	₹32,990	₹62,390	47%	Annual Power Usage: 977.8 kWhRoom Size: 111 - ...
22	SAMSUNG AI Pro 1.5 Ton 5 Star Split Inverter A...	4	₹45,490	₹72,990	37%	Annual Power Usage: 749.48 WRoom Size: 111 - 1...
23	CARRIER 2024 Model AI Flexical Convertible 6	3.8	₹34,990	₹67,700	48%	Annual Power Usage: 964.1 WRoom Size: 111 - 15...

In [66]: # All Pages

```
In [67]: def scrape_page(url):
    driver = webdriver.Chrome()
    driver.get(url)

    WebDriverWait(driver, 10).until(EC.visibility_of_element_located((By.CSS_SELECTOR, 'div.tUxRFH'))))

    driver.quit()

    return div_info_list
```

```
In [68]: if __name__ == "__main__":
    base_url = 'https://www.flipkart.com/search?q=laptop&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&otracker2=search'
    all_div_info = []
    for page_num in range(1,41): # Need to Scrap 88 pages.
        url = base_url.format(page_num)
        div_info_list = scrape_page(url)
        all_div_info.extend(div_info_list)

        # Printing the data from current page
        print(f"Scraped data from page {page_num}")

    # Printing the data
    for i, div_info in enumerate(all_div_info, start=1):
        print(f"Entry {i}: {div_info}")
```

Entry 312: ['CARRIER 2024 Model AI Flexicool Convertible 6', '3.9', '₹34,990', '₹67,790', '48%', 'Annual Power Usage: 964.1 WRoom Size: 111 - 150 sqft1 Year Warranty on Product, 5 Years Extended Warranty on PCB and 10 Years Warranty on Compressor']

Entry 313: ['CARRIER 1 Ton 3 Star Split Inverter AC', '3.9', '₹29,990', '₹56,990', '47%', 'Annual Power Usage: 704.46 WRoom Size: 90 sqft or Below1 Year Warranty on Product, 5 Years Warranty on PCB and 10 Years Warranty on Compressor']

Entry 314: ['CARRIER 2024 Model AI Flexicool Convertible 6', '4.2', '₹41,990', '₹76,090', '44%', 'Annual Power Usage: 754.05 WRoom Size: 111 - 150 sqft1 Year Warranty on Product, 5 Years Extended Warranty on PCB and 10 Years Warranty on Compressor']

Entry 315: ['MarQ by Flipkart 2024 Range 1.5 Ton 3 Star Split Inverter 4', '4.1', '₹28,490', '₹50,999', '44%', 'Annual Power Usage: 952.69 WRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor']

Entry 316: ['MarQ by Flipkart 2024 1.5 Ton 5 Star Split Inverter 4', '4.1', '₹31,490', '₹59,999', '47%', 'Annual Power Usage: 767.34 WRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor']

Entry 317: ['IFB AI Convertible 8', '3.8', '₹34,990', '₹62,990', '44%', 'Annual Power Usage: 991.28 WRoom Size: 111 - 150 sqft1 Year Warranty on Product, 5 Years Warranty on PCB and 10 Years Warranty on Compressor']

Entry 318: ['Daikin 2023 Model 1.5 Ton 3 Star Split Inverter AC with PM 2.5 Filter', '4.1', '₹36,990', '₹58,400', '36%', 'Annual Power Usage: 966.47 kWhRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor and 5 Years Warranty on PCB (Printed Circuit Board)']

Entry 319: ['Voltas 1.5 Ton 3 Star Split Inverter AC', '3.9', '₹32,990', '₹62,990', '47%', 'Annual Power Usage: 975.26 WRoom Size: 111 - 150 sqft1 Year Warranty on Product and 10 Years Warranty on Compressor']

```
In [69]: df_1 = pd.DataFrame(all_div_info, columns=['Name', 'Rating', 'Current Price', 'Original Price', 'Discount', 'Features'])
```

```
In [70]: df_1
```

Out[70]:

	Name	Rating	Current Price	Original Price	Discount	Features
0	CARRIER 1 Ton 3 Star Split Inverter AC	3.9	₹29,990	₹56,990	47%	Annual Power Usage: 704.46 WRoom Size: 90 sqft...
1	CARRIER 2024 Model AI Flexicool Convertible 6	4.2	₹41,990	₹76,090	44%	Annual Power Usage: 754.05 WRoom Size: 111 - 1...
2	MarQ by Flipkart 2024 Range 1.5 Ton 3 Star Spl...	4.1	₹28,490	₹50,999	44%	Annual Power Usage: 952.69 WRoom Size: 111 - 1...
3	MarQ by Flipkart 2024 1.5 Ton 5 Star Split Inv...	4.1	₹31,490	₹59,999	47%	Annual Power Usage: 767.34 WRoom Size: 111 - 1...
4	IFB AI Convertible 8	3.8	₹34,990	₹62,990	44%	Annual Power Usage: 991.28 WRoom Size: 111 - 1...
...
955	Lloyd 1.5 Ton 3 Star Split Inverter AC	4.1	₹32,990	₹58,990	44%	Annual Power Usage: 941.66 WRoom Size: 111 - 1...
956	Hisense 2024 Model 1.5 Ton 3 Star Split Invert...	4.1	₹29,990	₹48,000	37%	Annual Power Usage: 959.9 WRoom Size: 111 - 15...
957	SAMSUNG Convertible 5	4.1	₹32,990	₹62,390	47%	Annual Power Usage: 977.8 kWhRoom Size: 111 - ...
958	SAMSUNG AI Pro 1.5 Ton 5 Star Split Inverter A...	4	₹45,490	₹72,990	37%	Annual Power Usage: 749.48 WRoom Size: 111 - 1...
959	CARRIER 2024 Model AI Flexicool Convertible 6	3.9	₹34,990	₹67,790	48%	Annual Power Usage: 964.1 WRoom Size: 111 - 15...

960 rows × 6 columns

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In [71]: df_1.to_csv("AC.csv")
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In [ ]:
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In [ ]:
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