

Web Scraping Amazon ecommerce page

AutoScrapper is It is a python web scraping library to make web scraping smart, automatic fast, and easy.User can easily use this tool for data scraping because of its easy-to-use interface. To get started, you just need to type few lines of codes and you'll see the magic.

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In [ ]: #Installation

In [2]: !pip install autoscraper

Requirement already satisfied: autoscraper in c:\python\python39\lib\site-packages (1.1.12)
Requirement already satisfied: lxml in c:\python\python39\lib\site-packages (from autoscraper) (4.6.3)
Requirement already satisfied: requests in c:\python\python39\lib\site-packages (from autoscraper) (2.26.0)
Requirement already satisfied: bs4 in c:\python\python39\lib\site-packages (from autoscraper) (0.0.1)
Requirement already satisfied: beautifulsoup4 in c:\python\python39\lib\site-packages (from bs4->autoscraper) (4.9.3)
Requirement already satisfied: soupsieve>1.2 in c:\python\python39\lib\site-packages (from beautifulsoup4->bs4->autoscraper) (2.2.1)
Requirement already satisfied: charset-normalizer~=2.0.0 in c:\python\python39\lib\site-packages (from requests->autoscraper) (2.0.3)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\python\python39\lib\site-packages (from requests->autoscraper) (1.26.6)
Requirement already satisfied: idna<4,>=2.5 in c:\python\python39\lib\site-packages (from requests->autoscraper) (3.2)
Requirement already satisfied: certifi>=2017.4.17 in c:\python\python39\lib\site-packages (from requests->autoscraper) (2021.5.30)
WARNING: You are using pip version 21.1.3; however, version 21.2.1 is available.
You should consider upgrading via the 'c:\python\python39\python.exe -m pip install --upgrade pip' command.

In [ ]: from autoscraper import AutoScrapper

In [ ]: #Getting the url from where we want to scrap.In this case I will be scraping earphones from amazon ecommerce page.
#The wanted list is a list that is sample data that we want to scrape from that page

In [4]: amazon_url ="https://www.amazon.in/s?k=earphones&ref=nb_sb_noss_2"

In [11]: wanted_list=["₹549", "boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)"]

In [12]: #The function beloww will help building the scraper model and perform web scraping on that particular page itself.
#Finally create the object and show the result of web scraping.

In [13]: scraper=AutoScrapper()
result=scraper.build(amazon_url,wanted_list)
print(result)

['₹679', '₹1,299', '₹299', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', '₹199', '₹899', '₹1,999', '₹2,190', '₹349', '₹1,199', '₹449', '₹429', '₹599', '₹1,499', '₹2,499', 'boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wire d Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audio, Noise Cancelling Headset with 1.2m Tangle-Free Cable & 3.5mm Aux - (Black)', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'OnePlus Bullets Wireless Z Bass Edition (Bold Black)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic (Grey)', 'Ambrane Stringz 38 Wired Earphones with 3.5mm Jack (Green), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds s Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'pTron Pride Lite H BE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audio, Noise Cancelling Headset with 1.2m Tangle-Free Cable & 3.5mm Aux - (Blu e)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audi...', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Ambrane Stringz 38 Wired Earphones with Mi c, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5m...', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver...']

In [ ]: #Now will

In [14]: scraper.get_result_similar(amazon_url,grouped=True)

Out[14]: {'rule_jtoa': ['₹679', '₹1,299', '₹299', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', '₹199', '₹899', '₹1,999', '₹2,190', '₹349', '₹1,199', '₹449', '₹429', '₹599', '₹1,499', '₹2,499', 'boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audio, Noise Cancelling Headset with 1.2m Tangle-Free Cable & 3.5mm Aux - (Black)', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic (Grey)', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Green), Normal', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)'], 'rule_dmfw': ['₹679', '₹1,299', '₹299', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', 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with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic (Grey)', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Green), Normal', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)'], 'rule_ir9': ['₹549', '₹1,490', '₹399', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', '₹199', '₹899', '₹1,999', '₹2,190', '₹349', '₹1,199', '₹449', '₹429', '₹599', '₹1,499', '₹2,499', 'boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audi...', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5m...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver...', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)']}, 'rule_vihy': ['₹549', '₹1,490', '₹399', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', '₹199', '₹899', '₹1,999', '₹2,190', '₹349', '₹1,199', '₹449', '₹429', '₹599', '₹1,499', '₹2,499', 'boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audi...', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5m...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)']}, 'rule_ecr8': ['boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audio, Noise Cancelling Headset with 1.2m Tangle-Free Cable & 3.5mm Aux - (Black)', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic (Grey)', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Green), Normal', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)']}, 'rule_fu20': ['boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audi...', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5m...', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'realme Buds Classic Wired Earphones with HD Microphone Black', 'realme Buds Wireless 2 Neo (Black) in-Ear Earphones with Type-C Fast Charge | 17-Hour Battery | 11.2mm Bass Boost+ Driver | Bluetooth v5.0 & Magnetic Instant Connection', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Black)']}]

In [15]: scraper.set_rule_aliases({'rule_ecr8':'Title','rule_jtoa':'Price'})
scraper.keep_rules(['rule_ecr8','rule_jtoa'])
scraper.save('amazon-search')

In [19]: results=scraper.get_result_similar('https://www.amazon.in/s?k=earphones&ref=nb_sb_noss_2',group_by_alias=True)

In [20]: results['Price']

Out[20]: ['₹679', '₹1,299', '₹299', '₹999', '₹549', '₹1,490', '₹399', '₹1,290', '₹532', '₹499', '₹199', '₹899', '₹1,999']

In [21]: results['Title']

Out[21]: ['boAt Bassheads 242 in Ear Wired Earphones with Mic(Active Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Charcoal Black)', 'boAt Bassheads 102 in Ear Wired Earphones with Mic(Jazzy Blue)', 'boAt Bassheads 225 in Ear Wired Earphones with Mic(Black)', 'boAt Bassheads 100 in Ear Wired Earphones with Mic(Taffy Pink)', 'boAt Bassheads 152 in Ear Wired Earphones with Mic(Maroon Mirage)', 'pTron Pride Lite HBE (High Bass Earphones) in-Ear Wired Headphones with in-line Mic, 10mm Powerful Driver for Stereo Audio, Noise Cancelling Headset with 1.2m Tangle-Free Cable & 3.5mm Aux - (Black)', 'Boult Audio BassBuds Storm-X in-Ear Wired Earphones with Mic and Full Metal Body for Extra Bass & HD Sound with Passive Noise Cancellation (Grey)', 'Boult Audio BassBuds X1 in-Ear Wired Earphones with 10mm Extra Bass Driver and HD Sound with mic(Blue)', 'Boult Audio BassBuds Loop in-Ear Wired Earphones with 12mm Powerful Driver for Extra Bass with Customizable Ear Loop & Mic (Grey)', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Green), Normal', 'Ambrane Stringz 38 Wired Earphones with Mic, Powerful HD Sound with High Bass, Tangle Free Cable, Comfort in-Ear Fit, 3.5mm Jack (Black), Normal', 'Mi Earphones Basic with Ultra deep bass and mic (Blue)', 'Zebronics Zeb-Bro in Ear Wired Earphones with Mic, 3.5mm Audio Jack, 10mm Drivers, Phone/Tablet Compatible', 'Zebronics Zeb Buds C2 in Ear Type C Wired Earphones with Mic, Braided 1.2 Metre Cable, Metallic Design, 10mm Drivers, in Line Mic & Volume Controllor (Blue)']

In [ ]:
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