

# **eMind Technologies Web Scraping Project**

## **Data mining, Data Analyzing & Data Visualization**

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# INTRODUCTION

Web Scraping using Python

Website address : <http://www.thrillophilia.com>

Data mining , Data Analyzing & Data Visualization of the  
collected Data

## **Aim:**

To find the URL for each and every category of Activities being listed on the entire website.

For every place, fetching the data following info into a csv file:

Category name

Number of places on each category

Total Bought on each category

In addition to above mentioned attributes, I have also fetching Activity vs Location vs User Demographics information for each and every Activities.

## **Description:**

The python script is written to fetch all the individual categories from the website (<http://www.Thrillophilia.com> ), The code is written for fetching the data from the first page and it iterates to each and every pages of website ( activities, categories, count of bought),for that I have used statistical techniques and mathematically analysis to presenting the data into visualization .

## **Some packages:**

- bs4 (BeautifulSoup4)
- Requests
- Pandas
- Re (regular expression)
- Matplotlib

\*

Each city url ends with thing to do, total 80 cities urls

<https://www.thrillophilia.com/cities/no-chi-minh/things-to-do>  
<https://www.thrillophilia.com/cities/hanoi/things-to-do>  
<https://www.thrillophilia.com/cities/hoi-an/things-to-do>  
<https://www.thrillophilia.com/cities/ubud/things-to-do>  
<https://www.thrillophilia.com/cities/south-kuta-bali/things-to-do>  
<https://www.thrillophilia.com/cities/nusa-dua/things-to-do>  
<https://www.thrillophilia.com/cities/kintamani/things-to-do>  
<https://www.thrillophilia.com/cities/kuala-lumpur/things-to-do>  
<https://www.thrillophilia.com/cities/langkawi/things-to-do>  
<https://www.thrillophilia.com/cities/penang/things-to-do>  
<https://www.thrillophilia.com/cities/bangkok/things-to-do>  
<https://www.thrillophilia.com/cities/phuket/things-to-do>  
<https://www.thrillophilia.com/cities/pattaya/things-to-do>  
<https://www.thrillophilia.com/cities/chiang-mai/things-to-do>  
<https://www.thrillophilia.com/cities/phi-phi/things-to-do>  
<https://www.thrillophilia.com/cities/krabi/things-to-do>  
<https://www.thrillophilia.com/cities/siem-reap/things-to-do>  
<https://www.thrillophilia.com/cities/phnom-penh/things-to-do>  
<https://www.thrillophilia.com/cities/luang-prabang/things-to-do>  
<https://www.thrillophilia.com/cities/vientiane/things-to-do>  
<https://www.thrillophilia.com/cities/dubai/things-to-do>  
<https://www.thrillophilia.com/cities/abu-dhabi/things-to-do>  
<https://www.thrillophilia.com/cities/sharjah/things-to-do>  
<https://www.thrillophilia.com/cities/mumbai/things-to-do>  
<https://www.thrillophilia.com/cities/bangalore/things-to-do>  
<https://www.thrillophilia.com/cities/manali/things-to-do>  
<https://www.thrillophilia.com/cities/pune/things-to-do>  
<https://www.thrillophilia.com/cities/jaipur/things-to-do>  
<https://www.thrillophilia.com/cities/leh/things-to-do>  
<https://www.thrillophilia.com/cities/munnar/things-to-do>  
<https://www.thrillophilia.com/cities/cochin/things-to-do>  
<https://www.thrillophilia.com/cities/ledakh/things-to-do>



# LINKS OF EACH CATEGORY

current page <https://www.thrillophilia.com/cities/hue-city/things-to-do>

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/sightseeing?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/sightseeing?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/day-outs?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/day-outs?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/biking?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/biking?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/attraction-visit?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/attraction-visit?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/adventure-special--2?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/adventure-special--2?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/boating?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/boating?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/cycling?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/cycling?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/trekking?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/trekking?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/nature-and-wildlife?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/nature-and-wildlife?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/serial-activities?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/serial-activities?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/walking?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/walking?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/family-fun--2?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/family-fun--2?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/nightlife?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/nightlife?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/walking-biking?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/walking-biking?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/caving?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/caving?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/arts-culture?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/arts-culture?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/cruises-sailing--2?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/cruises-sailing--2?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/village-safari?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/village-safari?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/sports-games?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/sports-games?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/food-drinks?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/food-drinks?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/transfers?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/transfers?tour_type=Activity)

tags each place [https://www.thrillophilia.com/cities/hue-city/tags/wildlife?tour\\_type=Activity](https://www.thrillophilia.com/cities/hue-city/tags/wildlife?tour_type=Activity)

# USING PANDAS DATAFRAME

```
   Activities  Total_Count  Total_Bought  efficieny
0   Sightseeing           26           196   86.734694
1     Day Outs            17           163   89.570552
2      Biking            13           133   90.225564
3  Attraction Visit           8           47   82.978723
4  Adventure Special           8           67   88.059701
5      Boating             6           15   60.000000
6      Cycling             4            5   20.000000
7      Trekking             3           38   92.105263
8  Nature and Wildlife           3           26   88.461538
9  Aerial Activities           3           32   90.625000
10      Walking             2            1 -100.000000
11    Family Fun             2            1 -100.000000
12     Nightlife             2           31   93.548387
13  Walking & Biking             2            1 -100.000000
14      Caving              2           14   85.714286
15  Arts & Culture             1            1    0.000000
16  Cruises & Sailing             1           15   93.333333
17  Village Safari             1            1    0.000000
18  Sports & Games             1            7   85.714286
19   Food & Drinks             1           14   92.857143
20     Transfers             1           10   90.000000
21     Wildlife             1           12   91.666667
```

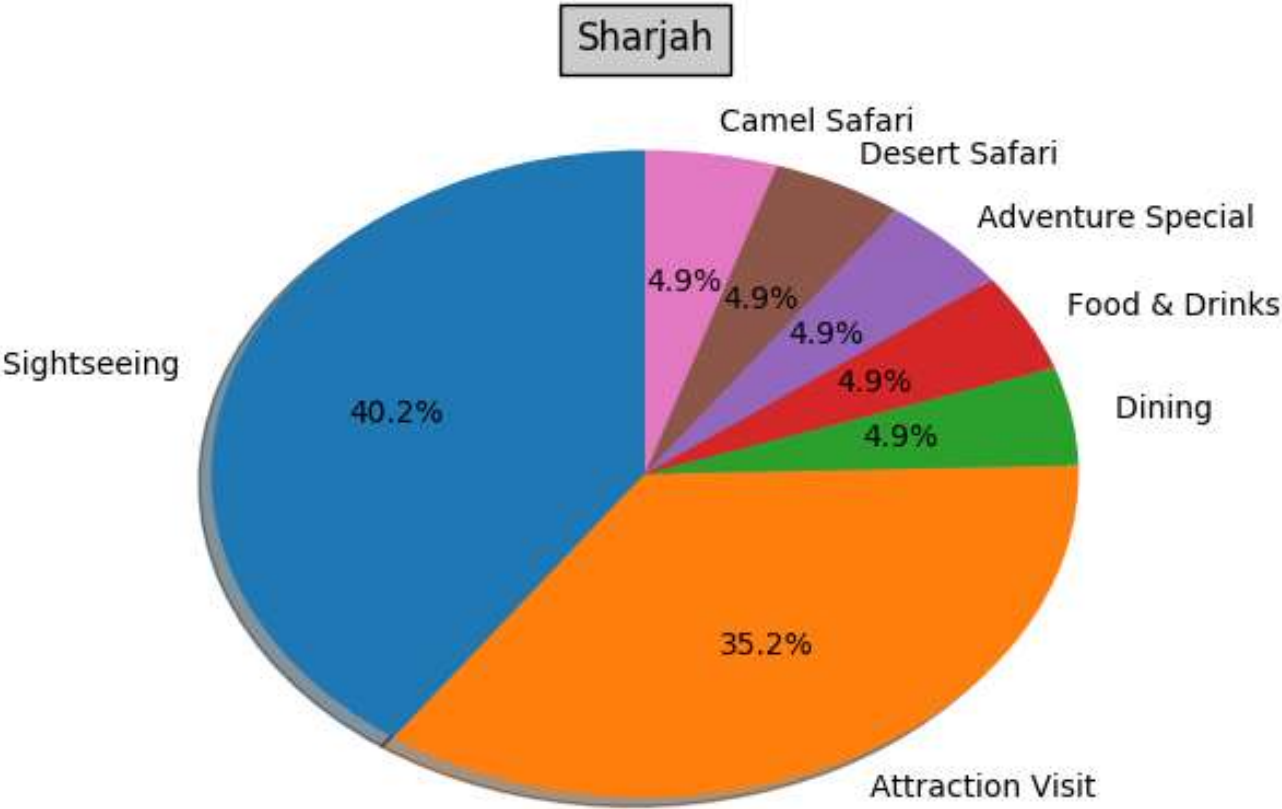


## CSV Output

The below mentioned csv file that generated after execution of the python script total 80 cities datasheets and graphs.

	A	B	C	D	E	F	G
1		Activities	Total_Count	Total_Bought	efficieny		
2	0	Sightseeing	26	194	86.59793814		
3	1	Day Outs	17	163	89.57055215		
4	2	Biking	13	133	90.22556391		
5	3	Attraction Visit	8	47	82.9787234		
6	4	Adventure Special	8	67	88.05970149		
7	5	Boating	6	15	60		
8	6	Cycling	4	5	20		
9	7	Trekking	3	38	92.10526316		
10	8	Nature and Wildlife	3	26	88.46153846		
11	9	Aerial Activities	3	32	90.625		
12	10	Walking	2	1	-100		
13	11	Family Fun	2	1	-100		
14	12	Nightlife	2	31	93.5483871		
15	13	Walking & Biking	2	1	-100		
16	14	Caving	2	14	85.71428571		
17	15	Arts & Culture	1	1	0		
18	16	Cruises & Sailing	1	15	93.33333333		
19	17	Village Safari	1	1	0		
20	18	Sports & Games	1	7	85.71428571		
21	19	Food & Drinks	1	14	92.85714286		
22	20	Transfers	1	10	90		
23	21	Wildlife	1	12	91.66666667		
24							
25							

Data visualization :



## Data visualization:

