# AmbitionWebScrapping

### December 24, 2024

```
[]: import pandas as pd
     import requests
     from bs4 import BeautifulSoup
     import random
     import time
     # List of User Agents
     user agents = [
         'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like | ...
      Gecko) Chrome/91.0.4472.124 Safari/537.396',
         'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15
      ⇔(KHTML, like Gecko) Version/16.4 Safari/605.1.15',
         'Mozilla/5.0 (iPhone; CPU iPhone OS 14_6 like Mac OS X) AppleWebKit/605.1.
     415 (KHTML, like Gecko) CriOS/92.0.4515.107 Mobile/15E148 Safari/604.1
     ]
     def get_random_user_agent():
         return random.choice(user_agents)
     def make request(url, max retries=3, delay=1):
         for attempt in range(max_retries):
             try:
                 headers = {
                     'User-Agent': get_random_user_agent(),
                     'Accept-Language': 'en-US, en; q=0.9',
                     'Accept-Encoding': 'gzip, deflate, br',
                     'DNT': '1',
                     'Connection': 'keep-alive',
                     'Upgrade-Insecure-Requests': '1',
                     'Sec-Fetch-Dest': 'document',
                     'Sec-Fetch-Mode': 'navigate',
                     'Sec-Fetch-Site': 'none',
                     'Sec-Fetch-User': '?1',
                     'Cache-Control': 'max-age=0'
                 }
                 response = requests.get(url, headers=headers, timeout=30)
```

```
response.raise_for_status()
                   return response
               except requests.RequestException as e:
                   if attempt == max_retries - 1:
                       raise
                   print(f"Attempt {attempt + 1} failed. Retrying in {delay} seconds...
        ")
                   time.sleep(delay * (2 ** attempt))
           raise Exception("All attempts failed")
       # Main execution
       url = 'https://www.ambitionbox.com/list-of-companies?page=1'
       try:
           webpage = make_request(url)
           soup = BeautifulSoup(webpage.content, 'lxml')
           print(soup.prettify())
       except Exception as e:
           print(f"An error occurred: {e}")
[102]: company = soup.find_all("div",class_="companyCardWrapper")
                                                                     #main conatiner
[103]: len(company)
[103]: 20
      0.1 company name
[108]: count = 0
       for i in soup.find_all("h2"):
           print(i.text.strip())
           count += 1
           if count >= 20:
               break
      TCS
      Accenture
      Wipro
      Cognizant
      Capgemini
      HDFC Bank
      ICICI Bank
      Infosys
      HCLTech
      Tech Mahindra
```

Genpact

Teleperformance

Concentrix Corporation

```
Jio
      Reliance Retail
      IBM
      iEnergizer
      LTIMindtree
      0.2 Rating
[111]: for i in soup.find_all("div",class_="rating_text rating_text--md"):
          print(i.text.strip())
      3.7
      3.9
      3.7
      3.8
      3.8
      3.9
      4.0
      3.7
      3.6
      3.6
      3.9
      3.9
      3.8
      3.8
      4.1
      3.9
      3.9
      4.1
      4.7
      3.9
 []: print(soup.find_all("span",class_= "companyCardWrapper__ActionCount"))
 []:
[116]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[0]:
          print(i.text.strip())
      84.4k
      0.3 Bottom container
[119]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[0]:
          print(i.text.strip())
      84.4k
```

Axis Bank Amazon

```
[121]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[1]:
          print(i.text.strip())
      8.6L
[123]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[2]:
          print(i.text.strip())
      10.1k
[125]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[3]:
          print(i.text.strip())
      88
[127]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[4]:
          print(i.text.strip())
      11.8k
[129]: for i in soup.find_all("span",class_= "companyCardWrapper__ActionCount")[5]:
          print(i.text.strip())
                                   #no need
      87
      0.4 creating an empty data frame
[132]: name =[]
      ratings=[]
      reviews = []
      salaries= []
      interviews =[]
      jobs =[]
      benefits =[]
      photos=[]
      0.5 Company Name
```

```
[135]: name = []
       count = 0
       for i in soup.find_all("h2",class_="companyCardWrapper__companyName"):
           text = i.text.strip()
           name.append(text)
           print(text)
           count += 1
           if count >= 20:
               break
```

```
TCS
Accenture
Wipro
Cognizant
Capgemini
HDFC Bank
ICICI Bank
Infosys
HCLTech
Tech Mahindra
Genpact
Teleperformance
Concentrix Corporation
Axis Bank
Amazon
Jio
Reliance Retail
iEnergizer
LTIMindtree
```

# 0.6 Ratings Count

```
for i in company:
    try:
        div_elements = i.find_all("div", class_="rating_text rating_text--md")
        if div_elements:
            rating_text = div_elements[0].text.strip()
            ratings.append(rating_text)
        else:
            ratings.append("") # Or some default value
    except AttributeError as e:
        print(f"Error processing {i}: {e}")
        ratings.append("") # Add a default value

print(ratings)
```

### 0.7 Reviews Count

```
[141]: from bs4 import BeautifulSoup

reviews = []
```

['3.7', '3.9', '3.7', '3.8', '3.8', '3.9', '4.0', '3.7', '3.6', '3.6', '3.9',

'3.9', '3.8', '3.8', '4.1', '3.9', '3.9', '4.1', '4.7', '3.9']

```
containers = soup.find_all("div", class_="companyCardWrapper")

for container in containers:
    review_count = container.find("span", 
    class_="companyCardWrapper__ActionCount")
    if review_count:
        reviews.append(review_count.text.strip())

print(reviews)
```

```
['84.4k', '52.7k', '50.3k', '47.2k', '39k', '37.6k', '36.7k', '36.5k', '33.8k', '33.1k', '29.8k', '27.3k', '25k', '24.2k', '23.9k', '21.7k', '21.3k', '21.1k', '20.9k', '19.7k']
```

### 0.8 Salaries Count

```
['8.6L', '5.7L', '4.4L', '5.6L', '4.3L', '1.4L', '1.5L', '4.6L', '3.2L', '2.6L', '2L', '89.1k', '1.2L', '62.4k', '66.1k', '2L', '22.1k', '1.7L']
```

## 0.9 Interviews Count

```
print(interviews)
```

```
['10.1k', '7.8k', '5.5k', '5.4k', '4.7k', '2k', '2.4k', '7.4k', '3.6k', '3.7k', '2.9k', '1.7k', '1.6k', '1.4k', '4.9k', '1.6k', '1.5k', '2.3k', '525', '2.7k']
```

#### 0.10 Jobs Count

```
['88', '21.9k', '567', '1.4k', '1.2k', '164', '--', '989', '155', '361', '2.5k', '308', '56', '136', '104', '4.1k', '28', '3.1k', '91', '106']
```

#### 0.11 Benefits Count

```
['11.8k', '7.3k', '5.2k', '6k', '4.1k', '3.3k', '3.8k', '5.3k', '4.2k', '3.7k', '3.8k', '2.2k', '3.4k', '2.2k', '4.4k', '2.7k', '2k', '2.8k', '559', '1.2k']
```

# 0.12 Photos Count

```
⇔class_="companyCardWrapper__ActionCount")[5]
           if photos_count:
               photos.append(photos_count.text.strip())
       print(photos)
      ['87', '39', '90', '69', '41', '29', '55', '108', '33', '63', '46', '31', '55',
      '80', '78', '65', '113', '23', '25', '34']
  []:
  []:
[160]: webpage = make_request(url)
       if webpage.content is None:
           print(f"No content returned for URL: {url}")
       else:
           soup = BeautifulSoup(webpage.content, 'lxml')
      Attempt 1 failed. Retrying in 1 seconds...
[161]: soup = BeautifulSoup(webpage.content, 'html.parser')
[162]: try:
           soup = BeautifulSoup(webpage.content, 'lxml')
       except Exception as e:
           print(f"Error parsing HTML: {e}")
[163]: if webpage.content.strip():
           soup = BeautifulSoup(webpage.content, 'lxml')
       else:
           print("No valid content returned")
      0.13 Fetching the first page in a DataFrame
[182]: name =[]
       ratings=[]
       reviews = []
       salaries= []
       interviews =[]
       jobs =[]
       benefits =[]
       photos = []
       for i in company:
```

photos\_count = container.find\_all("span",\_

```
name.append(i.find('h2').text.strip())
         ratings.append(i.find('div', class_='rating_text rating_text--md').text.
        strip() if card.find('div', class_='rating_text rating_text--md') else '')
         reviews.append(i.find_all('span',class_='companyCardWrapper__ActionCount')[0].
        →text.strip())
         salaries.append(i.
        ofind_all('span',class_='companyCardWrapper__ActionCount')[1].text.strip())
         interviews.append(i.
        ofind_all('span',class_='companyCardWrapper__ActionCount')[2].text.strip())
         jobs.append(i.find_all('span',class_='companyCardWrapper__ActionCount')[3].
        →text.strip())
         benefits.append(i.
        ofind_all('span',class_='companyCardWrapper__ActionCount')[4].text.strip())
         photos.append(i.find_all('span',class_='companyCardWrapper__ActionCount')[5].
        →text.strip())
  []:
[184]: df=pd.DataFrame({'name':name,
          'ratings':ratings,
          'reviews':reviews,
          'salaries':salaries,
          'interviews':interviews,
          'jobs':jobs,
          'benefits':benefits,
          'photos':photos,
          })
[186]: df.head()
[186]:
               name ratings reviews salaries interviews
                                                           jobs benefits photos
                TCS
                                                             88
                        3.7
                              84.4k
                                        8.6L
                                                   10.1k
                                                                   11.8k
                                                                              87
                              52.7k
                                        5.7L
                                                    7.8k 21.9k
                                                                    7.3k
       1
         Accenture
                        3.9
                                                                              39
       2
              Wipro
                        3.7
                              50.3k
                                        4.4L
                                                    5.5k
                                                            567
                                                                    5.2k
                                                                              90
       3 Cognizant
                             47.2k
                                        5.6L
                                                    5.4k
                                                           1.4k
                                                                      6k
                                                                              69
                        3.8
       4 Capgemini
                        3.8
                                39k
                                        4.3L
                                                    4.7k
                                                           1.2k
                                                                    4.1k
                                                                              41
[110]: df.shape
[110]: (20, 8)
[190]: df.count()
[190]: name
                     20
                     20
       ratings
       reviews
                     20
```

```
salaries
                     20
                     20
       interviews
       jobs
                     20
       benefits
                     20
                     20
       photos
       dtype: int64
[198]: import pandas as pd
       import requests
       from bs4 import BeautifulSoup
       import random
       import time
       final = pd.DataFrame()
       # User agents
       user_agents = [
           'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like | ...
        Gecko) Chrome/91.0.4472.124 Safari/537.396',
           'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15⊔
        ⇔(KHTML, like Gecko) Version/16.4 Safari/605.1.15',
           'Mozilla/5.0 (iPhone; CPU iPhone OS 14 6 like Mac OS X) AppleWebKit/605.1.
        415 (KHTML, like Gecko) CriOS/92.0.4515.107 Mobile/15E148 Safari/604.1
       ]
       def get_random_user_agent():
           return random.choice(user_agents)
       def make_request(url, max_retries=3, delay=1):
           for attempt in range(max_retries):
               try:
                   headers = {
                       'User-Agent': get_random_user_agent(),
                       'Accept-Language': 'en-US, en; q=0.9',
                       'Accept-Encoding': 'gzip, deflate, br',
                       'DNT': '1',
                       'Connection': 'keep-alive',
                       'Upgrade-Insecure-Requests': '1',
                       'Sec-Fetch-Dest': 'document',
                       'Sec-Fetch-Mode': 'navigate',
                       'Sec-Fetch-Site': 'none',
                       'Sec-Fetch-User': '?1',
                       'Cache-Control': 'max-age=0'
                   }
                   response = requests.get(url, headers=headers, timeout=30)
                   response.raise_for_status()
```

```
return response
        except requests.RequestException as e:
            if attempt == max_retries - 1:
            print(f"Attempt {attempt + 1} failed. Retrying in {delay} seconds...
 ")
            time.sleep(delay * (2 ** attempt))
    raise Exception("All attempts failed")
# Main execution
for j in range(0, 6):
    url = f'https://www.ambitionbox.com/list-of-companies?page={j}'
    try:
        webpage = make_request(url)
        soup = BeautifulSoup(webpage.content, 'lxml')
        # Find all company cards
        company_cards = soup.find_all('div', class_='companyCardWrapper')
        name = []
        ratings = []
        reviews = []
        salaries = []
        interviews = []
        jobs = []
        benefits = []
        photos = []
        for card in company_cards:
            name.append(card.find('h2').text.strip())
            ratings.append(i.find('div', class_='rating_text rating_text--md').
 →text.strip() if card.find('div', class_='rating_text rating_text--md') else_
 \hookrightarrow 11)
            #ratings.append(card.find('div', class_='rating_text_
 →rating_text--md').text.strip() if card.find('div', class_='rating_text_
 →rating_text--md') else '')
            reviews.append(card.find_all('span',_
 ⇔class_='companyCardWrapper__ActionCount')[0].text.strip() if len(card.

¬find_all('span', class_='companyCardWrapper__ActionCount')) > 0 else '')
            salaries.append(card.find_all('span',__
 →class_='companyCardWrapper__ActionCount')[1].text.strip() if len(card.
 ofind_all('span', class_='companyCardWrapper_ActionCount')) > 1 else '')
            interviews.append(card.find_all('span',_
 class_='companyCardWrapper__ActionCount')[2].text.strip() if len(card.
 ofind_all('span', class_='companyCardWrapper__ActionCount')) > 2 else '')
```

```
jobs.append(card.find_all('span',_
  class_='companyCardWrapper_ActionCount')[3].text.strip() if len(card.
  afind_all('span', class_='companyCardWrapper__ActionCount')) > 3 else '')
            benefits.append(card.find all('span', ...
  ⇔class_='companyCardWrapper__ActionCount')[4].text.strip() if len(card.
  ofind all('span', class = 'companyCardWrapper ActionCount')) > 4 else '')
            photos.append(card.find_all('span',_
  class_='companyCardWrapper_ActionCount')[5].text.strip() if len(card.
  afind_all('span', class_='companyCardWrapper__ActionCount')) > 5 else '')
        df = pd.DataFrame({
             'name': name,
             'ratings': ratings,
             'reviews': reviews,
             'salaries': salaries,
             'interviews': interviews,
             'jobs': jobs,
             'benefits': benefits,
             'photos': photos
        })
        final = pd.concat([final, df], ignore_index=True)
        print(f"Processed page {j}")
    except Exception as e:
        print(f"An error occurred while processing page {j}: {e}")
print("Data collection completed.")
print(final.head())
Attempt 1 failed. Retrying in 1 seconds...
Attempt 2 failed. Retrying in 1 seconds...
An error occurred while processing page 0: 404 Client Error: Not Found for url:
https://www.ambitionbox.com/list-of-companies?page=0
Processed page 1
Processed page 2
Processed page 3
Processed page 4
Processed page 5
Data collection completed.
       name ratings reviews salaries interviews
                                                   jobs benefits photos
0
        TCS
                 3.9
                      84.4k
                                 8.6L
                                           10.1k
                                                     88
                                                           11.8k
                                                                     87
                                                            7.3k
  Accenture
                 3.9
                      52.7k
                                 5.7L
                                            7.8k 21.9k
                                                                     39
1
                 3.9
                     50.3k
                                 4.4L
                                            5.5k
                                                   567
                                                            5.2k
                                                                     90
2
      Wipro
                                                   1.4k
                     47.2k
                                 5.6L
                                            5.4k
3 Cognizant
                 3.9
                                                              6k
                                                                     69
                                 4.3L
                 3.9
                         39k
                                            4.7k
                                                 1.2k
4 Capgemini
                                                            4.1k
                                                                     41
```

```
[200]: final.head()
[200]:
               name ratings reviews salaries interviews
                                                            jobs benefits photos
       0
                TCS
                         3.9
                               84.4k
                                         8.6L
                                                    10.1k
                                                               88
                                                                     11.8k
          Accenture
                         3.9
                               52.7k
                                         5.7L
                                                     7.8k 21.9k
                                                                      7.3k
                                                                               39
       1
       2
              Wipro
                         3.9
                               50.3k
                                         4.4L
                                                     5.5k
                                                             567
                                                                      5.2k
                                                                               90
          Cognizant
                               47.2k
                                         5.6L
                                                            1.4k
                                                                               69
       3
                         3.9
                                                     5.4k
                                                                        6k
          Capgemini
                                                     4.7k
                                                            1.2k
                         3.9
                                 39k
                                         4.3L
                                                                      4.1k
                                                                               41
[202]: final.shape
[202]: (100, 8)
[204]: final.to_csv('ambitionbox_data1.csv', index=False)
       print("Data collection and saving completed.")
      Data collection and saving completed.
[206]: final.count()
[206]: name
                      100
                      100
       ratings
       reviews
                      100
       salaries
                      100
       interviews
                      100
       jobs
                      100
       benefits
                      100
       photos
                      100
       dtype: int64
  []:
```