Scrape_article_annual

August 18, 2019

```
In [1]: import pandas as pd
        from requests_html import HTMLSession
        import requests
In [2]: def get_article_text(url):
            session = HTMLSession()
            r = session.get(url)
            html = r.html
            article_text = ''
            article_text = html.find('.hlFld-Abstract')[0].text + ' ' + html.find('.hlFld-Full
            ack_index = article_text.lower().find('\nliterature cited\n')
            article_text = article_text[:ack_index].replace('\n',' ')
            return ack_index, article_text
In [3]: def scrape_text_article(field,keyword,page):
            "' Scrape text articles from the Annual Review Journals in different fields'"
            # page number is n-1
            url = 'https://www.annualreviews.org/action/doSearch?SeriesKey=KeyPara&AllField=Al
            url = url.replace('KeyPara', field).replace('AllFieldPara',keyword.replace(' ','+')
            session = HTMLSession()
            r = session.get(url)
            html = r.html
            article_title_list = []
            article_url_list = []
            for item in html.find('h2'):
                article_title_list.append(item.text)
                article_url_list.append(item.absolute_links.pop())
            article_author_list = []
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article_year_list = []
for item in html.find('.text'):
    auth_txt = item.text
    index1 = auth_txt.find('\n')
    index2 = auth_txt[index1+1:].find('\n')
    article_author_list.append(auth_txt[index1+1:index1+index2+1])
    article_year_list.append(auth_txt[-4:])
article_html_list = []
for item in html.find('.tool-buttons'):
    html_url = min(list(item.absolute_links))
    article_html_list.append(html_url)
article_text_list = []
article_ack_idx_list = []
ack_idx = -1
for item in article_html_list:
    try:
        ack_idx, article_text = get_article_text(item)
    except:
        ack_idx = -1
        article text = ''
    article_text_list.append(article_text)
    article_ack_idx_list.append(ack_idx)
article_df = pd.DataFrame()
article_df['url'] = article_url_list
article_df['title'] = article_title_list
article_df['author'] = article_author_list
article_df['year'] = article_year_list
article_df['html_url'] = article_html_list
article_df['article_text'] = article_text_list
article_df['ack_idx'] = article_ack_idx_list
article_df['key_word'] = keyword
return article_df
```

0.0.1 Keyword - 'Depression'

the journals: The Annual Review of Psychology using url 'https://www.annualreviews.org/action/doSearch?SeriesKey=psych&AllField=depression+&ConceptID=&pag

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In [4]: #create the loop for pages
        article_dfs = []
        for page in range (35):
            article_dfs.append(scrape_text_article('psych','depression',page ))
```

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article_df = pd.concat(article_dfs,ignore_index = True)
        print(article_df.shape)
        article_df
C:\Users\hp\Anaconda3\lib\site-packages\bs4\builder\_htmlparser.py:78: UserWarning: expected no
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Out [4]:
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