

AUTOMATIC RECONFIGURING NEWS SITE

S5 CSB

Nikhill Shanmukhan

Sachit Anand

Siddharth Biju

Sidharth Sreekumar

Page of Contents

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- 1 Intro
- 2 Statement
- 3 Approaches
- 4 Comparison
- 5 Ethical and Social Relevance
- 6 Solution and Conclusion
- 7 Reference

Introduction

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference



- News is the information about an event happening right now.

- Online news reading has become a popular way to read news articles from a huge collection of news sources all around.
- In this work we present a method for identifying top news in the web environment[1] that consists of diversified news portals.

Problem Statement

AUTOMATIC RECONFIG- URING NEWS SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- News websites are one of the most visited destinations on the web.
- As there are many news portals created on a daily basis, each having its own preference for which news are important, detecting unbiased[2] important and popular news are the complex part of the news portal development.

Approach 1

Input : nil

Output : website with trending news
server side algorithm:

step 1 : for each 24 hours :

step 1.1 : `twurl /1.1/trends/place.json?id=1` ;
`copy.json`

step 2: `data = file.read()`

step 3: from `i=0` to `i=10`

step 3.1: `temp = data[0]["trends"][i]["name"]`

Step 3.2: `temp = temp[1:]`

Step 3.3: `temp = temp + " latest news articles"`

Step 3.4: `keyarray.append(temp)`

Approach 1 cont ...

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

step 4: crawl google for news links using keyarray values

step 5: seperate title and content from links obtained and append to an array with id

step 6: accept get request with news id

step 7: return array[id]

client side algorithm:

step 1 : render navbar .js

step 2: render contents .js

Approach 1 cont....

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

contents .js

1. for(i=0;i<10;i++)
 - 1.1 get 127.0.0.1 with i as id
 - 1.2 store response in an array
2. render title and contents in array

Approach 2

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

Input: nil

Output: website with popular news articles

step 1: For every 1 hour extract latest news
article details from different

news site (includes TimeofPublish ,ups,downs)

step 2: Find the number of articles extracted

step 3: Using reddit hot ranking algorithm sort
the news articles based on popularity rank

step 4: Display each article based on the rank
calculated.

Approach 2 cont ...

reddit hot ranking algorithm:

step 1:start

step 2:for each article extract the time of
publish,upcount,downcount

step 3:set ep=1970,1,1 in datetime format

step 4.define a function epsec(date)

step 4.1:td=date - ep

step 4.2:return td.days * 86400 + td.seconds +
(float(td.microseconds) / 1000000)

step 5:define a function

score(upcount,downcount)

step 5.1:return upcount-downcount

Approach 2 cont ...

step 6:define a function

hot(upcount,downcount,date)

step 6.1:s = score(upcount, downcount)

step 6.2:order = log(max(abs(s), 1), 10)

step 6.3:sign = 1 if s is grater than 0 else -1 if s
less than 0 else 0

step 6.4:seconds = epsec(date) - 1134028003

step 6.5:return round(sign * order + seconds /
45000, 7)

step 7:stop

Approach 3

• Hit Search Algorithm

Step 1: Read dataset containing articles

Step 2: Extract title, Number of articles n

Step 3: Do steps 4,5 for n articles

Step 4: Search title using any search engine

Step 5: Read and store corresponding number of hits

Step 6: sort articles according to number of hits

Step 6: Do steps 7 for n articles

Step 7: Print title and content of sorted articles

Approach 4

- Algorithm

Input: Nil

Output: Articles sorted based on popularity

Step 1: Search for all recent news sites using search engine

Step 2: Repeat Step 3,4 until no more chances left

Step 3: Views of every page is stored

Step 4: Compare views of all pages

Step 5: Content of page with high views is extracted

Approach 4 cont...

AUTOMATIC RECONFIG- URING NEWS SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

Step 6: All articles extracted are sorted according to the number of views

Step 7: Print title and content of sorted articles

Comparison

AUTOMATIC
RECONFIG-
URING NEWS
SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- On comparing Approach 1 and 4 ,Approach 1 takes only articles from twitter and articles may not be always available.
- comparing Approach 4 and 2,Approach 2 its more difficult to implement to news articles as downvote[3] and upvote[4] my not be present in all articles.

Comparison contd..

AUTOMATIC RECONFIG- URING NEWS SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- Approach 3 has possible cases of HTTP error and popularity may not be accurate

Relevance

AUTOMATIC RECONFIG- URING NEWS SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- News websites give the information to the public – political, social, sports, entertainment etc.
- News Sites play a vital role in educating and informing Mass with latest updates, current happenings around the globe.

Solution and Conclusion

- In this work, we propose a method to detect and to rank important news stories in web environment
- We use google search to fetch news from all website.
- Then we analyze the total views of all website using google analytics.
- After that we separate the title and content of the news articles and display it.

Reference

AUTOMATIC RECONFIG- URING NEWS SITE

Intro

Statement

Approaches

Comparison

Ethical and
Social
Relevance

Solution and
Conclusion

Reference

- [1]<https://www.ibm.com/>
- [2]<https://en.wikipedia.org/>
- [3]<https://en.wiktionary.org/>