# Finding Related Posts On Social Media Through Content Semantic Similarity

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### Abstract

Sentiment research on social media provides businesses with a quick and easy way to track public opinion about their brand, business, directors, and other topics. In recent years, a variety of features and approaches for training sentiment classifiers on datasets have been investigated, with mixed results. In this research, we have proposed an approach for detecting emotion in text and predicting sentiment using semantics as extra characteristics for various datasets and a study on present methods for opinion mining Forum posts has the specific problem of finding related posts to a post at hand. By considering across the related documents the contents of posts are generally consider are whole. Here similarity process are done between two posts with respective segments and should be of same intention. All posts are generally fragmented in the form of group to attain the goal bunches. Now similarities are generally cross view in the forums in the form of sections and that will of same intention. Finding related forum posts are done in the form of division strategy is delineated

### I. Introduction

Social media has changed the opinion of people of sharing their views and sentiments in today's world. Nowadays they share their feeling through posts, status, blogs and social networking sites. Presently, millions of people use these social media sites like Facebook, Instagram, Twitter, and other sites to talk their emotions, opinions, and points of view about their day to day practices, by this we get a knowledge of ongoing things in the world through these internet groups. People use these communicating media to inform and influence other people around the globe. Over conversation media a incredible amount of statistics is produced by social media sites. Tweets, Stories, status updates, posts, etc deliver sentimentrich data from posts, comments, views and reviews. Additionally, mass media gives a platform for commerce to connect with their customers for marketing resolutions. For the most part, people make decisions based on user-created content found on the social media/online. For example if a person is willing to buy stuff, they will review the comments online and then decide whether to buy stuff or not. The volume of material formed by operators is far too large for a usual user to inspect. As an outcome, multiplicity of sentiment analysis techniques are often used to preset this process. People can anticipate through online reviews about purchasing thing or not. Dealers and companies use this information to obtain a better knowledge of their products or facilities so that they may be better suited to their clients' demands. Dispensation, finding, and understanding the factual data available are the main concerns of textual information retrieval systems. The most prevailing contents in Sentiment Analysis comprise of opinions, judgments, feelings, attitudes, and emotions (SA). The tremendous expansion of existing information on the networking sites, such as posts, blogs, Status and social networks, gives various difficult opportunities for new application development. Example, SA may be used to predict suggestions of commodities offered by a reference system based on standards such as favorable or unfavorable remarks about those things SA (Sentiment analysis) uses natural language processing (NPA) to extract feelings, opnions and views from the data like text, audio data, tweets and other media. It is the procedure of categorizing textual opinions into classifications such as "positive," "negative," or "neutral." Subjective analysis, opinion mining, and assessment extraction are additional expressions that are for it.

It comprises of a different responsibilities such as extraction of sentiments, classifying the sentiments, categorization subjectivity in the content, overall summarization of opinions and spam detection, etc. Its purpose is to investigate people's sentiments, attitudes, opinions, and emotions about various items, including as products, people, subjects, organizations, and services.

In order to classify sentiment, several steps must be followed, namely data gathering, data preprocessing, feature extraction, emotion arrangement and valuation. The data is obtained from various sources that are in raw form. Then by finding the mood that you need to uphold in a structured system and its done by preprocessing the data. After the preprocessing, the feature extraction is carried out. After the characteristic has been mined from the data, the sentiment classification must now be carried out. To carry out process, different methods can be used to classify feelings, such as: lexicon, machine learning and hybrid technique, are the basic step for SA. Feature extraction and sentiment classification methods. Sentiment

analysis is a difficult task. Some of the important tests in sentiment analysis of local language tweets are sarcasm detection, negation handling and emoticon detection. The main work that will be performed in this paper is to perform semantic analysis on the data including the emoticon detection.

Levels in Sentiment Analysis

Mainly there are four levels that are Document level, Sentence or phrase level, Aspect level and Word level. In Fig1. Four levels of sentiment analysis is shown in the form of a diagram



Document level- It is concerned with assigning a feeling to specific papers. In this level, the entire text is classified as good or bad. By determine the polarization of a text, identify the feeling polarizations of discrete phrases or disputes and aggregate them. Additional techniques include reference determination and additional complex language issues. Some of the tasks that are used is each text concentrates on a single item and contains viewpoint from a single view owner.

Sentence level- Separate judgments are tagged with their corresponding sentiment polarity in this semantic level. Its categorization divides sentences into three categories: positive, negative, and neutral. Finding the sentiment placement of separate word in a sentence and then combining them to get the sentiment of the entire sentence or phrase is the general technique.

Aspect level- It is concerned with assigning a feeling to each phrase as well as identifying the entity to whom the sentiment is addressed. Sentiment categorization at the aspect or feature level is concerned with detecting and extracting product attributes from the source data. This makes use of techniques such as dependency parsers and discourse structures. The following are some of the tasks that are involved like determining the view on features and locating the object characteristics and structures

Word level- For emotion categorization at the verdict level, most recent approaches have relied on the preceding polarization of texts and expressions. Adverbs and adjectives are the best shared features used in text sentiment grouping, but adverbs are also used.

Forums are generally a online discussion site, where people hold there conversations by posts. It is like a message board and different from chat rooms. A traditional approach for finding related document that perform content comparisons across content of posts, the contents are compared by different posts. The relatedness of two posts can then be based on a comparison across segments that serve the same goal. Every posts are generally considered as segments. Segments are generally said as parts (or) sections .In This the relatedness between two posts should be based on similarities respective to segments. The segmentation methods play important role by developing work with monitoring the no of text features ,it identify by parts of post. While this process performing significant jumps are occurred because of that segmentation are occur. Now segmentation of all posts are generally clustered in the form of intention cluster so that the similarities are calculated across segmentation with same intention.

Generally existing forums range from domains like health (e.g., Med help), law (e.g., Expert Law) and technology (e.g., HP support forum as m). The relatedness of forums are compared based on segmentation process.. Work are done this direction has been done for questions in Q&A archives but not for richer- content posts. The compression can be performed by information retrieval method TF/IDF or BM25 variants or language- model based methods or using topics generated by topic modeling techniques like LDA paraphrasing techniques or even auxiliary external services with the latter been used especially for documents with short and poor content, e.g., tweets.

Here for finding forum posts that are related we generally introduce a novel method. In that method every and each post are considered as set of segments and then the are compute similarity contents across every segments with same intention.

- 1. Now the segments are identified and grouped into clusters so that the text features are explicit.
- 2. Now weights are assigned to text features.
- 3. Now multi segment ranking process are provided to top k forum are done along with there related reference documents, in this cluster play important role, in each cluster similarities are performed between each post along with reference documents

### **II. RESEARCH METHODOLOGIES**

Data Mining is now a day an interesting domain to work on. Previously, many methods were proposed for text document clustering. In this research, we mainly focused on Inter passage approach by using Senti Word analysis for text document clustering

This section reviews some related work to investigate the strengths and limitations of previous methods and to identify the particular difficulties in computing semantic similarity. Related works can roughly be classified into following major categories:

1.Word co-occurrence methods.

2.Similarity based on a lexical database.

3.Method based on Twitter data.

### **III. PROPOSED SYSTEM:**

### **3.1.SEGMENTATION OF POSTS**

The challenging task is finding right segmentation process, from segmented documents, that are occurred in large body of work, if it is in the form of document d, there are  $2^{jdj}$  possible segmentations are occur.

Every segmentation process should be in the form of coherent largely disconnected from its adjacent segments. Segmentation is the intention-based, these two properties translate to a segmentation where every segment: conveys a single clear intention conveys by the adjacent segments.

biveys a single clear mention conveys by the adjacent segment



	Possible Segmentations
Boxes	75, 182, 201, 259, 285, 338, 355, 371, ch418, 436, 488, 535
(a) CM <sub>tense</sub> -Based	([0,75],[76,182],[183,201],[202-285],[286-418],[419-535])
(b) CM <sub>subj</sub> -Based	([0,182],[183,201],[202,418],[419,488],[489,535])
(c) CM <sub>qneg</sub> Shift	([0,182],[183,201],[202,438],[439,535])
(d) Intention-Based	([0-182],[183,418],[419-535])
(e) Thematic	([0-49],[50-535])

Fig. . CMs and Segmentations

### **3.2. SEGMENT GROUPING**

Segments with similar intentions are created same group and segments with different intentions in different groups. It is modeled with vector of features, array of information are taken here. Now each cluster are generally communicates respectively the same goal.

I to denote a cluster, and C to denote the set of the generated clusters.

Vector of weights that are based on the feature values are created by us. Vector with the letter F. Now consider two types of weights that capture the strength of the use of each CM categorical value, of each feature.

Now each CM value with in the segment are measured then the comparisons are done to categorical values that belong to same communication appearing in segments.

Using the notion of the distribution table  $DSb_{CMr}$  of a communication mean CMr introduced in Section we define the vector  $F_s$  of weights, one weight for each feature.

### **3.3.SEGMENTATION REFINEMENT:**

They should have same document with same segments that are end up with same cluster with same intention., if they have the same intention but are not same cluster then consequence document. The segments that belong to the same document in a cluster are concatenated into one.

### **3.4.MATCHING:**

Document matching is one of the best technique plays important role by collecting of documents that are generally related to reference document dq.

Now the dq reference document are measure the relatedness between other documents d0 are lie in the form of IR technique.

#### **3.4.1Matching with respect to a specific Intention:**

Every document with some specific intention are projected on each cluster. The specific intention are made by measuring the related documents to reference document d0. Text comparison are computed the relatedness between the documents like IR technique i.e. TF/IDF model.TF/IDF method and its probabilistic variance BM25 consists of a term weighting scheme that weighs a term in a document considering the number searching That variance computes the weight of a term t in a document d<sup>0</sup>.

. If  $s_q$  and  $s^0$  are the segments of the documents  $d_q$  and  $d^0$ , respectively, in the intention cluster, where fsq (t) denotes the frequency of the term t in the segment sq, jIj the cardinality of the intention cluster, and jI<sup>t</sup>j the number of segments in the intention cluster.

Algorithm 1 Single Intention Matching Input: Cluster I, Doc. Collection D, Document d<sub>q</sub>2D Output: List of n documents and their intention matching M<sub>1</sub>; for each s<sub>q</sub>2S<sup>dq</sup> if s<sub>q</sub>62lcontinue; // See footnote<sup>1</sup> scr 0 for each s<sup>0</sup>2I d<sup>0</sup> fdj s<sup>0</sup>2S<sup>d</sup>g // See footnote<sup>2</sup> for each t2s<sub>q</sub> scr scr+f<sub>sq</sub> (t) w(t; s<sup>0</sup>) log(ili j l<sup>t</sup>i)=jl<sup>t</sup>j M<sub>1</sub> M[hd<sup>0</sup>; scri Return fhd<sup>0</sup>; scrij hd<sup>0</sup>; scri2M<sub>1</sub>^ scr2 top-n scores

### 3.4.2. Matching with respect to All the Intentions:.

This algorithm consist of top-n lists generated across the different intentions, ., the set M are used to generate the k most related documents to the reference document  $d_q R$  is created as new list contains in every document in lists in M. Each document are associated with the sum of the scores with which this document appears in the various lists in M. The k elements in R with the highest score are returned as answer to the request of the matching documents to the reference document  $d_q$ .

High value for n compared to the value of k, on the other hand, will favor documents that appear in many lists even with not very high scores. We have empirically found that a good choice is an n equal to 2 k

Algorithm 2 All Intentions Matching Input: Document Collection D, Document d<sub>q</sub>2D, Int Intention Clusters C Output: List of documents L : M ; for each I2C for each s<sub>q</sub>2S<sup>dq</sup> if s<sub>0</sub>62icontinue M<sub>1</sub> SingleIntentionMatching(I.D.d<sub>a</sub>.n) L L[fM<sub>1</sub>g for each M<sub>1</sub>2L for each hd<sup>0</sup>; scri2M<sub>1</sub> if exists hd<sup>0</sup>; xi2M, with x2R M M[hd<sup>0</sup>; scri else hd<sup>0</sup>; xi hd<sup>0</sup>; x + scri Return fd<sup>0</sup> j hd<sup>0</sup>; scri2M<sup>4</sup> scr2 top-k scores in Mg



### **3.4.3.The Proposed Method As Follows:**



# **IV. RESULTS AND DISCUSSION:**

### OPEN THE COMMAND PROMPT AND RUN



# i.IT IS THE FIRST PAGE

		Text preprocessing	Cancel
ocuments:	Parsed Text Web Page		
ExpertLaw Reviews - 31 Reviews of Expertlaw.com _ Sitejabber.html 'amily law and divorce solicitors gloucester.html interdisciplinary GlobaH Health Forum, conference report PubMed - NCBL.html international Health Forum.html WHI Overview - MEDICA - World Forum for Medicine.html Page0.htm Page10.htm Page10.htm Page13.htm Page13.htm Page14.htm Page16.htm Page16.htm Page16.htm Page18.htm Page18.htm Page20.htm Page20.htm Page22.htm Page22.htm Page23.htm Page23.htm Page23.htm Page23.htm Page24.htm Page24.htm Page24.htm Page24.htm Page24.htm Page25.ht	Tel: +49 (0) 211 9717 5751 Info@scienceservice.de Organization: Program planning: Martin Peters, M.A martin.peters@scienceservice.de Exhibition planning: Aexa Feld, M.A alexa Feld, M.A alex		

### ii.NOW PRE PROCESSING IS TO BE PERFORMED

		Text preprocessing Cancel
Documents:	Parsed Text Web Page	
ExperiLaw Reviews - 31 Reviews of Experliaw.com _ Sitejabber.html family law and divorce solicitors gloucestor.html interdisciplinary Global Health Forum_ conference report PubMed - NCBLI International Health Forum.html MHIF Overview - MEDICA - World Forum for Medicine.html Page0.htm Page1.htm Page1.htm	mi Open Stati utilies I Stati	2
Page12.htm Page13.htm Page14.htm Page15.htm Page15.htm Page15.htm Page19.htm Page20.htm Page20.htm Page22.htm Page23.htm Page23.htm Page23.htm Page25.htm	article.txt         auxverbs.txt         conjunction.txt         preposition.txt         pronouns.txt         File Name:         Files of Type:         All Files         Open         Cancel	
Page22.htm Page22.htm Page28.htm Page38.htm Page30.htm Page31.htm Page32.htm	MEDICAL FAR THALAND - Bangkor / Thalland MEDICAL MANUFACTURING ASIA - Singapore MEDITECH - Bogotá / Colombia ZDRAVCOKHRANENYE - Moscow / Russia © Ilvesse Dusedorf GmbH Privacy Policy Imprint Contact	

# iii.RESULT AFTER PREPROCESSING.

			C	ompute Document Weights Canc	el
Documents:	Word	Local Freq	Global Freq	Relative Freq	
Page0.htm	·	23	3112	1567.5	-
Page1.htm	*	2	117	59.5	
Page10.htm	**	1	24	12.5	
Page11.htm	>	4	103	53.5	
Page12 htm	>	1	46	23.5	
Deget 2 htm	A	1	771	386.0	
Page 15.nun	ACCESS	1	12	6.5	
Page14.ntm	ADD	4	236	120.0	
Page15.htm	AFTER	1	71	36.0	
Page16.htm	AGAIN	2	28	15.0	
Page17.htm	ALL	1	118	59.5	_
Page18.htm	ALSO	1	24	12.5	_
Page19.htm	AN	3	150	76.5	_
Page2.htm	AND	11	563	287.0	_
Page20.htm	ANY	2	30	16.0	_
Page 21 htm	ARE	2	95	48.5	_
Descalation	AS	2	116	59.0	_
Page22.htm	AT	2	169	85.5	_
Page23.num	BACK	1	71	36.0	_
Page24.htm	BASIC	1	50	25.5	_
Page25.htm	BE	3	106	54.5	_
Page26.htm	BEFORE	1	36	18.5	_
Page27.htm	BEGINNERS	2	98	50.0	_
Page28.htm	BETWEEN	2	50	29.0	_
Page29.htm	BOTH	1	13	7.0	_
Page3.htm	BOXES	3	117	13.0	_
Page 30 htm	BOACKETS	2	24	13.0	_
Dage 34 htm	BRACKETS	2	02	42.0	_
Page 32 htm	C	5	469	237.0	_
Page32.ntm	CAN	5	197	96.0	_
Page33.htm	CASCADING	1	46	23.5	
Page34.htm	CERTIFICATES	1	47	24.0	
Page35.htm	CHANGE	1	61	31.0	_
Page36.htm	CHARACTERS	1	36	18.5	
Page37.htm	CHECK	2	48	25.0	
Page38.htm	CHECKING	2	9	5.5	_
Page39.htm	CLEAR	2	11	6.5	
Page4.htm	CLEARS	1	1	1.0	
Page 40 htm	CLICK	5	157	81.0	
-age-to.nun -	01,000,000				

## iv.COMPUTE DOCUMENT WEIGHTS

					Build MVS Matrix Cancel
Documents:	Word	Local Freq	Global Freq	Relative Freq	Cosine Weight
Page0.htm		23	3112	1567.5	83.88310094547441
Page1.htm	<	2	117	59.5	1.6540410239615113
Page10.htm	<<	1	24	12.5	0.7387576918119976
Page11 htm	>	4	103	53.5	2.8092611726150225
Dago12 htm	>	1	46	23.5	0.09253954672381665
Page 12.htm	A	1	771	386.0	2.5922579048404546
Page15.num	ACCESS	1	12	6.5	1.4295134802398672
Page14.htm	ADD	4	236	120.0	6.022755455935644
Page15.htm	AFTER	1	71	36.0	0.3365567472343878
Page16.htm	AGAIN	2	28	15.0	1.1708057470936857
Page17.htm	ALL	1	118	59.5	0.835335793734022
Page18.htm	ALSO	1	24	12.5	0.7387576918119976
Page19.htm	AN	3	150	76.5	3.207160459279696
Dago2 htm	AND	11	563	287.0	25.460127044577376
Page2.inum	ANY	2	30	16.0	1.0336153908870764
Page20.num	ARE	2	95	48.5	1.2460642638636141
Page21.htm	AS	2	116	59.0	1.6372644287914455
Page22.htm	AT	2	169	85.5	2.369268751430251
Page23.htm	BACK	1	71	36.0	0.3365567472343878
Page24.htm	BASIC	1	50	25.5	0.009950330853168092
Page25.htm	BE	3	106	54.5	2.191313046896188
Page26.htm	BEFORE	1	36	18.5	0.33567827072003636
Dago 27 htm	BEGINNERS	2	98	50.0	1.307068159445205
Page27.htm	BETWEEN	2	56	29.0	0.20438188179309438
Pageza.nun	BOTH	1	13	7.0	1.3496702738138753
Page29.htm	BOX	3	117	60.0	2.481061535942267
Page3.htm	BOXES	2	24	13.0	1.4775153836239951
Page30.htm	BRACKETS	2	82	42.0	0.9568585387444702
Page31.htm	BUT	2	97	49.5	1.2869475083028652
Page32.htm	С	5	469	237.0	10.74460945543799
Page33.htm	CAN	5	187	96.0	6.411840142456389
Page 34 htm	CASCADING	1	46	23.5	0.09253954672381665
Page 36 htm	CERTIFICATES	1	47	24.0	0.07123149864211242
Pages5.htm	CHANGE	1	61	31.0	0.18672467894732458
Page36.htm	CHARACTERS	1	36	18.5	0.33567827072003636
Page37.htm	CHECK	2	48	25.0	0.10075241465013374
Page38.htm	CHECKING	2	9	5.5	3.433193620066612
Page39.htm	CLEAR	2	11	6.5	3.0326506323465257
Page4.htm	CLEARS	1	1	1.0	3.9122229854308124
Page40.htm	CLICK	5	157	81.0	5.566528486427202

# VI.BUILT VSM MATRIX

Similar	ty Matrix Do	cument Identities	1														Se	gm	ent	atic	on u	ısir	ng k	< M	lea	ns	c	and	cel	
Docs	D1	D3	D4	 	 		 	 	 		 	 		 	 	 	 										 			
D1	0.9999999999	0.56330792269	0.364	 	 	_	 	 	 	_	 	 				 	 					_		_	1		_	_		-
D2	0.927552821	0.54167039348	0.351	 	 		 	 	 		 	 				 	 													
D3	0.563307922	1.0	0.878	 	 		 	 	 		 	 		 	 	 	 			(					1	1	 			
D4	0.364946329	0.87840744462	1.0	 	 		 	 	 		 	 		 	 	 	 			(					1	1	 			
D5	0.656540597	0.90943650851	0.879	 	 		 	 	 		 	 		 	 	 	 			[]					1	1	 			
D6	0.643921705	0.95882483198	0.864	 	 		 	 	 		 	 		 	 	 	 			<b></b>					1	1	 			
D7	0.681914631	0.92553367263	0.853	 	 		 	 	 		 	 		 	 	 	 								1		 			
D8	0.528033256	0.88534257712	0.921.	 	 		 	 	 		 	 		 		 	 			<b></b>					1	1				
D9	0.388469359	0.90112196343	0.916.	 	 		 	 	 		 	 		 	 	 	 										 			
D10	0.491210233	0.91094624112	0.935	 	 		 	 	 		 	 		 		 	 								1	1				
D11	0.419786121	0.89718220192	0.936	 	 		 	 	 		 	 				 	 													
D12	0.312745160	0.86827522341	0.934	 	 		 	 	 		 	 				 	 													
D13	0.888005254	0.51415164345	0.326	 	 		 	 	 		 			 		 	 													
D14	0.396557461	0.92499245594	0.926	 	 		 	 	 		 	 		 	 	 	 			(					1	1	 			
D15	0.537770840	0.89517097946	0.899	 	 		 	 	 		 	 		 	 	 	 			(					1	1	 			
D16	0.506596252	0.94945426992	0.936	 	 		 	 	 		 	 		 	 	 	 										 			
D17	0.359718707	0.89715541238	0.930	 	 		 	 	 		 	 		 	 	 	 			<b></b>					1	1	 			
D18	0.400946693	0.85398644693	0.861	 	 		 	 	 		 	 		 	 	 	 										 			
D19	0.531724118	0.94283455964	0.935	 	 		 	 	 		 	 				 	 													
D20	0.362424966	0.91001806089	0.922	 	 		 	 	 		 	 		 		 	 													
D21	0.341379658	0.85748944276	0.896	 	 		 	 	 		 	 				 	 											-		
D22	0.286686998	0.83626541800	0.941	 	 		 	 	 		 	 				 	 									-		-		
D23	0.329943132	0.88563196736	0.950		 		 	 	 		 					 	 											-		
D24	0.303768953	0.88668515999	0.891	 	 		 	 	 		 	 		 	 	 	 									1				
D25	0.559656902	0.93297930866	0.909	 	 		 	 	 		 	 		 		 	 													
D26	0.809280150	0.87582414503	0.723	 	 		 	 	 		 	 		 	 	 	 										 			
D27	0.443236306	0.92254890097	0.882.	 	 		 	 	 		 	 		 	 	 	 			<b></b>					1	1	 			
D28	0.310099668	0.85677713550	0.928	 	 		 	 	 		 	 		 	 	 	 										 			
D29	0.414132710	0.90151766123	0.914	 	 		 	 	 		 	 		 		 	 			<b></b>					1	1				
D30	0 513704791	0 94818922797	0.900	 	 		 	 	 		 	 -	-	 	 -	 	 	-					-							
D31	0.570500075	0.91368340625	0.879	 	 		 	 	 		 	 				 	 								1	-				
D32	0 365627392	0.86674020321	0 794	 	 		 	 	 		 	 		 	 	 	 						-				 			
D33	0.406832206	0.90662171075	0.912	 	 		 	 	 		 	 		 		 	 										 			
D34	0.366394643	0.88593173760	0.947				 	 	 		 						 								1	-		-		
D35	0.383084857	0.88118664820	0.929	 	 		 	 	 		 	 		 		 	 						-				 			1
D36	0.458872493	0.89719177589	0.925	 	 		 	 	 		 	 		 		 	 						-	-			 	-		
D37	0 201934224	0 56099206484	0.578	 	 		 	 	 		 	 		 	 	 	 										 			1
D38	0 381851200	0.87481231647	0.934	 	 		 	 	 		 	 		 ···· ·		 	 			( i i i i i i i i i i i i i i i i i i i							 			
0.00	0.554440760	0.07540450005	0.070	 	 		 	 	 		 	 		 	 	 	 			(*** )			-				 	-		

# VII.OUTPUT

Page41.htm	Page44.htm	
Page42.htm	Page0.htm	UNC Chapel Hill
Page44.htm	Page10.htm	- LINC Health Care
Page45.htm	Page11.htm	e onto rieduri odre
Page47.htm	Page12.htm	<ul> <li>Intrahet</li> </ul>
Page5.htm	Page13.htm	Login
Page51.html	Page14.htm	
page52.html	Page15.htm	
page53.html	Page16.htm	
Page7.htm	Page18.htm	
Page9.htm	Page19.htm	
Servers and Operating Systems _ HPE Blogs, Discussions and Forums Community.html	Page20.htm	Office of Global Health Education
Top 100 Healthcare Blogs, Websites & Newsletters To Follow in 2019.html	Page21.htm	
What are some of the best online law forums in India Quora.html	Page22.htm	
What forums exist to discuss legal matters Quora.html	Page23.htm	
	Page24.htm	Toggle navigation Office of Glo
	Page25.htm	Education
	Page26.htm	Eutration

## V. CONCLUSION

We have proposed a technique of Lexicon-based approach to solve sentiment analysis problems which it is expected to refine the sentiment analysis system using machine learning technique. For further study, we can concentrate on the learning of merging machine learning methods with opinion lexicon methods in demand to increase sentiment classification correctness and adaptability to a wide range of domain.

This paper presents an approach to calculate the semantic similarity between two words, sentences or paragraphs. A novel approach proposed by us for matching a reference post to the k most related posts in a collection. In our method, segmentation are done across the posts that convey similar with some intentions. We presented several experiments regarding the right segmentation criteria, the effectiveness of the segmentation algorithms and the formation of intention clusters that prove that a rather intuitive concept, that of the author intentions to communicate a certain message, can be effectively captured by an automated process.

Then extractive summarization is used to extract feature terms and the summarized sentences were ranked based on feature frequency of the posts, measuring the relatedness score after having distinguished the different

### VI. REFERENCES

- 1. M. Chen, X. Jin, and D. Shen, "Short text classification improved by learning multi-granularity topics," in IJCAI, 2011, pp. 1776–1781.
- 2. J. Jeon, W. B. Croft, and J. H. Lee, "Finding semantically similar questions based on their answers," in Proceedings of the 28th ACM SIGIR Conference, ser. SIGIR '05. New York, NY, USA: ACM, 2005, pp. 617–618.
- 3. M. Chen, X. Jin, and D. Shen, "Short text classification improved by learning multi-granularity topics," in IJCAI, 2011, pp. 1776–1781.
- 4. J. Jeon, W. B. Croft, and J. H. Lee, "Finding semantically similar questions based on their answers," in Proceedings of the 28th ACM SIGIR Conference, ser. SIGIR '05. New York, NY, USA: ACM, 2005, pp. 617–618
- 5. S. Robertson, S.Walker, and M. Hancock-Beaulieu, "Okapi at TREC-7: Automatic ad hoc, filtering, VLC and interactive track," TREC '98, pp. 199–210, 1998.
- 6. .G. Salton, A. Singhal, C. Buckley, and M. Mitra, "Automatic text decomposition using text segments and text themes," in ACM Hypertext, 1996, pp. 53–65.
- 7. S. Louvigne, N. Rubens, F. Anma, and T. Okamoto, "Utilizing social media for goal setting based on observational learning," in ICALT, 2012, pp. 736–737.
- 8. .K.Wang, Z. Ming, and T. Chua, "A syntactic tree matching approach to find similar questions in community QAservices," in ACM SIGIR, 2009, pp. 187 194.
- 9. K. Jones, C. Van Rijsbergen, B. L. Research, and D. Department, Report on the Need for and Provision of an Ideal Information Retrieval Test Collection, ser. British Library Research and Development reports, 1975.
- 10. J. Kekalainen, "Binary and graded relevance in ir," Inf. Processing & Management, vol. 41, no. 5, pp. 1019 1033,2005.
- 11. Z.-Y. Ming, T.-S. Chua, and G. Cong, "Exploring domain specific term weight in archived question search," in Proceedings of he 19th ACM CIKM, ser. CIKM '10. New York, NY, USA: ACM, 2010, pp. 1605–1608.
- 12. H. Wen, W. Zhongyuan, W. Haixun, Z. Kai, and Z. Xiaofang, "Short text understanding through lexical-semantic analysis," in IEEE ICDE, 2015
- 13. J. Jeon, W. B. Croft, and J. H. Lee, "Finding semantically similar questions based on their answers," in Proceedings of the 28th ACM SIGIR Conference, ser. SIGIR '05. New York, NY, USA: ACM, 2005, pp. 617–618.