

REST Journal on Emerging trends in Modelling and Manufacturing Vol: 4(4), 2018 REST Publisher ISSN: 2455-4537

Website: www.restpublisher.com/journals/jemm

Evaluation of Twitter Sentiment Using Weighted Product Method

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Abstract

Social media, especially Twitter, has a variety of users Discusses events, services and brands Provides space for comments and feedback. Quality Provides space for comments and feedback. Quality and to improve scale, continue to entrepreneurs Need feedback on their services. In the past decades, from all these social media especially to get useful information from Twitter a hot research among researchers has become popular. Alternative: Full Text Sense, NAVA Sense, Full Text Consciousness, NAVA Sentiment, GIF support. Evaluation Option: Anticipation, Disgust, Trust, Anger, Sadness. The result is tragedy and first rank, whereas the Foundation has got the lowest rank. Conclusion: The value of the dataset for Twitter Sentiment Analysis in Weighted product method shows that it results in Sadness and top ranking

Keywords- Drilling, CFRP, thrust force, torque, point angle, delamination, eccentricity

1. Introduction

Twitter is a major micro-blogging website Developed, more than 100 million users Over 500 million tweets every day With such a large audience Evolve, Twitter continues to attract users, no matter what issue, brand, company or other interest Their views and perspective on the topics expresses. For this reason, many Twitter Organizations, companies and as a source of information is used organizations. There are many different Ways to calculate the sentiment score, but the most common pattern is negative, neutral or positive it means using a dictionary of words. In the text How many negative and positive words are there is analyzed to see this is text Gives a good idea of the overall feeling. Common sense analysis is very important Macro level socioeconomic phenomena such as the stock market rate of a particular company Prediction. Cumulative over the company over time By analyzing people's sentiments, public between sentiment and the company's stock market value Economic tools to find out the relationship between This can also be done by using (Twitter allows downloading streams of tweets geo-tagged to specific Places. If companies. Geographically diverse they analyze the reasons behind the response can do Appropriate market segments Suitable as creating by looking for solutions; they can market their products more optimally.

2. Twitter Sentiment Analysis

There are many sentiment analysis techniques Used for work literature, which improve the treatment of unrealistic information. More recently, Twitter is a data sensation used in analysis studies. However, Most of these creations are based on Twitter data Shallowness of text due to processing difficulties Focus on content analysis. This To improve the effectiveness of Techniques in Twitter Messages This work presents the study. [4] Then, synonyms and antonyms of these words Searched in corpora such as Word Net or thesaurus and added to the package. The set grows gradually until No new words found. This approach has a Strength of feeling is weakness Classification depends on the size of the dictionary. This approach allows the size of the dictionary to grow and it goes wrong. [5] These studies primarily use sentiment analysis technique are using Researchers of each tweet Semantic analysis of contextual content Use and selected group of people Draw the predicted answer. However, the former Studies are predictive for a wide range of populations the model is flawed. Under certain circumstances selected to predict their future response these are studies that collect data only from individuals. It is information defined based on certain groups does not depict overall response to crime incidents. [6] This is the study focused only on Chinese Internet users. Currently studying Big data addresses this limitation uses for analysis People's feelings and emotions Based Typical of people who retreat in the face of adversity In the course of studying the emotional patterns of society creates necessity. [7] The output is presented in positive or form Negative emotions and accuracy. Algorithms search Words with similar or close feelings & then compare that too. It then classifies and analyzes it Format of maps, maps. The data we have the training data is the algorithm used. For specific datasets, for the first 500 tweets in our case, we train the data. After we increase the number of tweets. Next we train 1000 Tweet and increase it to 3000 tweets.[8] The results of or common feeling trends on can be very attractive In some situations. For example, Apple's new product on how others feel about "iPhone4". People are curious, and this is very much for them conveniently, the comments are from massive tweets are collected. Lady Gaga fans Curious In their superstar reaction from others about what's going on. Read news about when politics an overview of the election, support and support is expected meanwhile, opposition to presidential candidates on Twitter. [9]. On the opposite side, tweets automatically for each event An imaginary device that harvests hundreds Downloading tweets, analyzing content does, For example give yourself A summary on a bar graph, or event Visualize people's feelings. Also, you're Imagine that the mobile phone is not a smart mirror Try it and it will show you a summary of

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events without needing to spend people's feelings on a daily basis Use or purchase apps to make efforts or programming tools so. That is, we proposed Raspberry Pi engine Visualization of results on our IoT connected smart mirror device.[10] Sentiment analysis on Twitter, however, is mechanical Reviews based on learning or From sentiment analysis models on blogs is different. In a tweet message, abbreviations and A sense of informality, including typos, is either or Told in two-sentence paragraphs. This Messages are less in terms of language usage are uniform and generally of a very wide range Includes topics. Also, by man Discusses generated status updates No meaning is always clear when; Many Tweets make their sense even to a human reader don't understand Finally, a large portion of tweets are advertisements And any such as links to news articles Not reporting sentiment, it's data collection, training and presents some difficulties in testing.[11] Seem Evan Workshop 2013 to 2017 Sensation on Twitter Several works have been proposed in connection with the analysis. Many teams have participated in the last two editions Systems include sophisticated deep- TEMs Approaches to learning. In this Courtesy, is a reference to Sen. [12] in this paper, based on the number of users is growing rapidly. Also, tweets mostly common and for 140 characters are simplified. However, a lot of data, short Use of patterns, different time registers and Diversity of language analyzes perceptions Twitter data is difficult to process. [13] And, our tests showed its usefulness the following features are good for the emotional pole is indicators Sense class for some of them:

- Total number of particles,
- Total number of interpolations
- > Total number of pronouns Group I and II separately,
- Application of denial,
- ▶ Usage and total number of unusual words. [14]

The proposed method (MR-KBBO) is large-scale for sentiment analysis of Twitter dataset is used. MR-KBBO method is BBO and the graph reduce programming model is large the graph reduce programming model is large Optimal clustering of datasets with cancroids Uses the power to detect. Also, MR- KBBO's performance is four sophisticated parallels Compared with methods, namely graph reduction basically; Parallel K-means, parallel K-PSO, MR-ABC, DFPPKPA accuracy and quantification Time. Parallel Computational Efficiency of MR-KBBO Different number of machines in clusters Analysis with fast graphs containing done [15]. Automatically establish individual tweet data sentiments Calculate Natural Language Processing (NLP), tweet In the application of analytical and biological data Sentiment analysis is derived from Sentiment Current work on analysis, positive, negative and Current work on analysis, positive, negative and Tweeting comments with neutrality. General Including voice of reviews and survey responses Sentiment analysis is widely available and clinical Varies by service. Text data, images, videos, and speech this applies to writing like knowing. Emotional Analytics works for similar tweet data after receiving this data; It is unique to the input Breaks into words or sentences. This is It is called tokenization. [15]. Service interval given negative comments and to access certain features offered by BPJS Affects public perception of complexity. Feeling Analytics is in computational research of users one of ideas, feelings and emotions is a compilation. Polarization of analysis document, Negative in document, a positive or neutral potential this calculation is the reason why are discussed. This research is done by People Services and BPJS Aiming to analyze perceptions of benefits contains Rapid miner with Naïve Bays classification method. [16] The rest of the paper is organized as follows. section In 2, sentiment analysis is related to stock forecasting We describe the work and the following section In the model we propose In Section 4, this We briefly discuss the datasets in the paper and data pre-processing methods have been used Accepted. For the purpose of this work Section 5 presents the sentiment analysis technique we developed discusses. [17]. The first dataset is training and testing Used for purposes in English 1.6 Millions of tweets automatically positive or negative, The existence of positive and negative emotions are basically marked. This dataset is typically As Stanford Twitter Sentiment (STS). Dataset In our experiments, STS Dataset without emoticons (this is STS-w/oe denoted as) followed by training and testing Used as a dataset, separation is imminent given in subset. [18] In this study, sentiment analysis was successful. This article introduces 'deep' deep learning we use methods. 'Learning' code Continuous and real-valued text Representation/Automation feature it from data Refers to learning, often neurotic with network approaches. First we are continuous We describe methods for word representation, learning Also called word embeddings Words are the basic enumeration of natural language units is [19] A type of sentiment analysis called opinion mining use data from the community there are media like Twitter, Facebook and Instagram appears to be subjective opinions of the user. It is more accurate to understand the user gives Their values for each user, There are conditions, reading users trend or Having different senses according to interests Important. is indicative. In this way, consciousness Analytics can deliver a better experience. [20] The present paper examines two types of linguistic resources Shows the importance of considering rejection describes what is used with intent. A Polarity classification system was developed, this A dictionary-based approach to research follows; so emotional in some collections Expressions are used. Specifically, feedback a list of words, a set of emoticons we consider the feelings they represent and are divided by a list Hash tags that express feelings. [22] Additionally, jargon and acronyms in tweets as there may be, to reduce the time variability problems we used vocabulary control technique. Topic modeling to identify specific topics we conducted a content analysis with the technique, and sentiment changes for each topic we also used sentiment analysis to track. In content analysis, specific to Ebola to identify subheadings, POS Extracted noun based on tag we used phrases. Person, organization, Extracted like location, date and disease we also key concept networks with companies we have created Names. In sentiment analysis, each of the main themes of 'Ebola virus' we also explored the topic's sentimental changes. This A variety of analytics news media and Twitter Helped us understand the features. [24] A specific use of punctuation marks, vowels or the Let's show how serious the work of all capital words is a person's feeling. To detect such features, we extract a collection of The following features: number of exclamation marks, Number of question marks, number of periods, Count all capital words and Number of citations.[25]

3. WPM Method

The weighted product method MADM problem resolves the methods. This method is attributes or multiple will be independent. A weighted product method Multiplication for Teaching Attribute Estimation using techniques. A popular one is the Weighted Product Model (WPM). In the proposed routing scheme, the decision problem This method is used to solve Instead of addition, This time multiply to order the alternatives uses. Each substitution has multiple ratios Compared with others by multiplying, each One for scale. Each rate is relative scale is raised. Weighted Product Method Important like the weighted sum method the difference is that in this model there is multiplication instead of addition. SAW method similarly, the WPM method is more in MCDM One of the methods used. WPM is simple and to use in cases of greater subjectivity Easy. Optimal routing, Internet operations Estimation, Production, Selection of Project Manager Etc WPM is used in areas. WPM directing circuits are coordinated flawlessly into a superior adaptation of MINDS alluded to as HR-MINDS. In fact, make full use of WPM routing, most are semi-global and the recommended universal wires for this task are to be designed with pipeline levels at the transmission level (RTL) stage. This would be a significant drawback for micro-architects who make extensive use of WPM routing. The weighted part Max SAT encryption has been demonstrated to be extremely compelling in taking care of the CSG issue, Boolean recommendation encodes the arrangement of requirements in rationale and utilizations the offthe-rack WPM answer for track down the ideal arrangement. In any case, with existing WPM encryption, many unnecessary encryptions are emphasized. In the WPM encryption for the CSG issue, a significant number of intermediate rules based on rationality have been introduced, with the exception of the encryption rules or the encryption relationships between agents. These rules are essential because WPM encryption provides a set of strict controls indicating that some variables may be true and others may be true. Wavelet Pocket Modulation (WPM) is a multi care balance procedure that has arisen as a practical option in contrast to the broadly utilized symmetrical erosion portion multiplexing technique. Because WPMs are interchangeable, rotation prefix (CP) cannot be used in OFDM. Balance. [26]. Wavelet Pocket modulation (WPM) means high bandwidth efficiency and Multicarrier modulation with flexibility is technology. This feature is future generation information best suited for communication systems. Improve a WPM based computer paper is provided bit error System. Orthogonal frequency division to provide an alternative to multiplexing, Wavelet Pocket Modulation with Wavelet Transform bases can be used for multicar systems other than sine functions. WPM is a high frequency efficient and adaptive channel with flexibility in encoding schemes Multicarrier modulation technique. Weighted Product Model (WPM). WPM is like WSM. The principal contrast is that in the model there is increase rather than expansion. Application programming incorporates word processors, calculation sheets, data set administration, stock and finance plans, and many "applications", the estimated electricity, the distance from the road to the power station, Project cost; distance from power pole to power station and distance from village to power station are considered as criteria. Also an alternative to the four drop points in the Rankle Branch Canal. Simplified surface energy balance models that include crop production classification, crop yield and biophysical models, counting WPM techniques and conventions utilizing distant awareness information, were then ready by isolating them with water use maps (WUMs). As an explanation, a lower cutter is discussed. Based on the proposed method, the possible final-life option for sheet metal (Material Composing Lower Cutter) is primary recycling.

DATA SET						
	Full Text	NAVA	Full Text	NAVA	GIF	
	Sentiment	Emotion	Emotion	Sentiment	support	
Anticipation	31.08	139.53	29.15	25.15	19.05	
Disgust	28.12	142.97	33.69	27.30	22.06	
Trust	33.15	122.58	30.23	23.10	36.05	
Anger	23.17	128.28	24.60	20.15	15.06	
Sadness	35.63	168.13	27.96	18.89	24.36	

Table 1: Twitter Sentiment Analysis in Weighted product method Data Set

This table 1 shows that the value of Data Set for Twitter Sentiment Analysis in Weighted product method Data Set Alternative: NAVA Sense, Full Text Consciousness, NAVA Sentiment, GIF support. Evaluation Option: Anticipation, Disgust, Trust, Anger, Sadness.



Figure 1: Twitter Sentiment Analysis in Weighted product method Data Set

Figure 1. Shows that the value of Data Set for Twitter Sentiment Analysis in Weighted product method Data Set Alternative: NAVA Sense, Full Text Consciousness, NAVA Sentiment, GIF support. Evaluation Option: Anticipation, Disgust, Trust, Anger, Sadness.

		Performance value					
Anticipation	0.8723	0.83	0.86524	0.7511	0.7906		
Disgust	0.7892	0.85	1	0.6919	0.6827		
Trust	0.9304	0.729	0.8973	0.8177	0.4178		
Anger	0.6503	0.763	0.73019	0.9375	1		
Sadness	1	1	0.82992	1	0.6182		

Table 2: Twitter Sentiment Analysis in Weighted product method Performance value

This table 2 shows that the values of Twitter Sentiment Analysis in Weighted product method for Performance value using Weighted product method Find the pair wise comparison value for Anticipation, Disgust, Trust, Anger, Sadness.

Table 2.	Truittor	Sontimont	Analysia	in	Waightad	product	mathad	Waight aga
Table 5.	I WILLEI	Sentiment	Analysis	ш	weighteu	product	memou	weight age

		Weight		
0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.25
0.25	0.25	0.25	0.25	0.25

This table 3 shows that the values of Twitter Sentiment Analysis in Weighted product method for Weight age using Weighted product method Find the pair wise comparison value for Anticipation, Disgust, Trust, Anger, Sadness.

Table 4: 7	Fwitter S	Sentiment	Analysis	in	Weighted	product	method	Weighted	normalized	decision	matrix
						F					

	Weighted normalized decision matrix					
Anticipation	0.97	0.95	0.96	0.93	0.942937	
Disgust	0.94	0.96	1.00	0.91	0.908981	
Trust	0.98	0.92	0.97	0.95	0.803952	
Anger	0.898	0.93461	0.9244	0.984	1	
Sadness	1	1	0.9545	1	0.886721	

This table 4 shows that the values of Twitter Sentiment Analysis in Weighted product method for Weighted normalized decision matrix using Weighted product method Find the pair wise comparison value for Anticipation, Disgust, Trust, Anger, Sadness.

Table 5: Twitter Sentiment Analysis in Weighted product Preference Score

	Preference Score
Anticipation	0.7809
Disgust	0.7504
Trust	0.6753
Anger	0.7634
Sadness	0.8463

This table 5 shows that from the result it is seen that Sadness = $0.8463 \ 1^{\text{st}}$ rank, Anticipation = $0.7809 \ 2^{\text{nd}}$ rank, Anger = $0.7634 \ 3^{\text{rd}}$ rank, Disgust = $0.7504 \ 4^{\text{th}}$ rank, Trust = $0.6753 \ 5^{\text{th}}$ rank



Figure 2: Twitter Sentiment Analysis in Weighted product Preference Score

This figure 2 shows that from the result it is seen that Sadness = $0.8463 1^{\text{st}}$ rank, Anticipation = $0.7809 2^{\text{nd}}$ rank, Anger = 0.7634

 3^{rd} rank, Disgust = 0.7504 4^{th} rank, Trust = 0.6753 5^{th} rank.

	Rank
Anticipation	2
Disgust	4
Trust	5
Anger	3
Sadness	1

Table 6: Twitter Sentiment Analysis in Weighted product Rank

This table 6 shows that the result is tragedy and first rank, whereas the Foundation has got the lowest rank.



Figure 3. Twitter Sentiment Analysis in Weighted product Rank

This figure 3 shows that the result is tragedy and first rank, whereas the Foundation has got the lowest rank.

4. Conclusion

On the opposite side, tweets automatically for each event An imaginary device that harvests hundreds Downloading tweets, analyzing content does, For example give yourself A summary on a bar graph, or event Visualize people's feelings. Also, you're Imagine that the mobile phone is not a smart mirror Try it and it will show you a summary of events without needing to spend people's feelings on a daily basis Use or purchase apps to make efforts or programming tools so. That is, we proposed Raspberry Pi engine Visualization of results on our IoT connected smart mirror device. Sentiment analysis on Twitter, however, is mechanical Reviews based on learning or from sentiment analysis models on blogs is different. In a tweet message, abbreviations and A sense of informality, including typos, is either or Told in two-sentence paragraphs. This Messages are less in terms of language usage are uniform and generally of a very wide range Includes topics. Also, by man Discusses generated status updates No meaning is always clear In any case, with existing WPM encryption, many unnecessary encryptions are emphasized. In the WPM encryption for the CSG issue, a significant number of intermediate rules based on rationality have been introduced, with the exception of the encryption rules or the encryption relationships between agents. These rules are essential because WPM encryption provides a set of strict controls indicating that some variables may be true and others may be true. Wavelet Pocket Modulation (WPM) is a multi care balance procedure that has arisen as a practical option in contrast to the broadly utilized symmetrical erosion portion multiplexing technique. Because WPMs are interchangeable, rotation prefix (CP) cannot be used in OFDM.

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