Research Article

HUMAN SYSTEM INTERACTION AND EMOTIONAL VERIFICATION DEVELOPING THE MARKETING STRATEGIES

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ABSTRACT

The rapid development in social network sites and emotional information by analysing their sentiments helps in understanding the perspectives. The emotions handles the different types of messages analysis of the context present in it also analysis the age and gender that classifies the positive and negative emotions. The possible differences in gender and the age group differences also makes their preferences of choices differ. In our proposed paper we identify marketing strategies of people using their type of comments and emotional patterns used. By using their strategies marketers influence people by making them believe that their product or any information will be true. Different human emotions are being learnt and verified by the human system interaction that plays significant role in dealing with emotions of people and how the system grasps it. Human emotional interaction verifies and progresses the marketing strategies.

INTRODUCTION

The social network systems influence the emotional expressions over comments and marketing messages leads to pattern of emotional disclosure. The research verdicts expect the influence over social network over the users' behaviour over the complete information. The emotional pattern recognition of social network structure on user behaviour with processed comments in social network that follows certain pattern and the followers of the comments and the information shared. The compared emotional pattern disclosed in the social networks like Face book, twitter, Linked in, youtube, Pintrest and Instagram etc [1]. The less social interaction between the context comments and information shared will be significantly focused. The common motivational things disclosed and emancipated.

To make the most advances and intuitions from opinion mining so one can come across emotion in a greater diversity of contexts and for often social as a substitute than industrial dreams. Chiefly, is it currently potential to establish emotions in person textual context communications and utilize this to promote deeper insights into problems for which sentiments can play a position? As an instance, how crucial is emotional expression for: influential verbal substitute between pals to pals, throughout a web argument, customarily detecting offensive verbal exchange styles in chat rooms, or detecting grasping behaviour on-line? this text begins the method of transferring from opinion mining to emotion detection with the aid of using a case take a look at of MySpace feedback to illustrate that it is possible to extract emotion-bearing remarks on a large scale, to gain initial outcomes approximately the social function of emotion and to identify key problems for the challenge of figuring out emotion in informal textual communications on-line. For this reason, even though it is initial and exploratory design to file useful facts for destiny emotion detection research and for those interested by social network communication.

Similarly to psychological research and the social psychological angle of identifying social and cultural factors in emotion expression, emotion has been substantially studied in sociology. Many theories were evolved to explain the function of emotion in diverse conditions [2]. One overview grouped

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these theories especially into the subsequent huge types: dramaturgical and cultural, regarding emotion as a performance by using people to an audience; ritual, concerning emotion as an important outcome of ritual methods, no longer most effective non secular ceremonies but additionally standardised approaches utilized in human interaction; symbolic interactions, regarding emotions as every so often generated while individuals' self-identities are threatened or reinforced; symbolic interactions with a psychoanalytic focus, analysing techniques used to deal with loss of confirmation of identification; change theories, concerning emotions both as commodities to be exchanged or as the outcome of exchanges; structural theories, based totally upon social electricity systems; and evolutionary theories, explaining cutting-edge feelings on the basis of evolutionary social pressures

LITERATURE REVIEW

Opinion mining or sentiment analysis is the automated detection of evaluations from unfastened text. This research vicinity has been partially stimulated with the aid of the business purpose of giving cheap, certain and timely patron comments to corporations (Pang & Lee, 2008) [3]. Before the net, agencies would have to rely on particularly sluggish and steeply-priced methods of gaining purchaser remarks, consisting of telephone or mail surveys, interviews and consciousness businesses. On line, however, they'll be capable of gain comments from online consumer critiques, blogs, remarks and chat room discussion, assuming that a pc application can clear out the applicable statistics from the relaxation of the internet or a particular critiques website. In this context, the intention of opinion mining is to identify high quality and poor evaluations in unfastened text and to partner this opinion with applicable objects. The aim is probably detail in the sense of figuring out what's mentioned and the way (e.g., which factors of a vehicle are favoured or disliked), or the purpose is probably a judgement within the experience of diagnosing the nature and strength of opinion (e.g., diagnosing how plenty a reviewer appreciated a film from their on-line evaluate).

Opinion mining is often cut up into two consecutive responsibilities: detecting which textual content segments (e.g., sentences) incorporates critiques and the polarity and perhaps electricity of that opinion (Pang & Lee, 2008) [4]. A simple method analyzes how often positive and negative words arise or how regularly they co-occur in sentences with given goal of system reliability. At the same time as complete gadget comprehension of textual content is presently impossible, computational linguistics techniques can in part examine the structure of textual content, using it to greater appropriately come across sentiment. This method might incorporate negating phrases (Das & Chen, 2001) like "not", booster words like "very" and grammatical systems common in sentiment-bearing sentences (Turney, 2002) [5]. It is based upon fairly grammatically correct English to function successfully, however, which makes it less beneficial in environments like social community sites with a great deal casual language. Many refinements of the above strategies have been proposed (e.g., Konig & Brill, 2006; Turney, 2002) [6].

Textual content mining packages have additionally been advanced in psychology, conversation studies, control and corpus linguistics (for a evaluation see: Pennebaker, Mehl, & Niederhoffer, 2003) [7]. For example, a few mental issues may be quite reliably diagnosed in sufferers primarily based upon a simple word frequency evaluation of speech (Oxman, Rosenberg, & Tucker, 1982); political statements (Hart, 2001) and enterprise venture statements (brief & Palmer, 2008) had been analysed for the electricity of variables such as optimism; and a thing evaluation throughout a wide range of text genres has diagnosed that the degree of creator involvement in a text as opposed to an informational orientation (arguably a susceptible expression of emotion) is something that has a tendency to be constant inside genres however varies between genres (Biber, 2003) [8].

Many unique aspects of emotion can be measured, which includes: individuals self-report of emotions, neurological changes, autonomic system reactions, and bodily movements - including facial actions (Mauss & Robinson, 2009) [9]. Those appear to overlap to among exclusive feelings main them to be described as syndromes instead of clear sets of identifiable capabilities. Eckman (1992) and others despite the fact that argue that there are fundamental or fundamental feelings which are rather universally known and reputedly experienced by means of people, and that these exist as a result of evolutionary pressure. As an instance, autonomic changes and cognitive strategies all through worry prepare someone to run far away from threat. In assist of this, there's medical proof that at least five distinctive feelings (worry, disgust, anger, happiness, disappointment) are demonstrably exclusive within the feel of activating one of a kind mixtures of brain areas (Murphy, Nimmo- Smith, & Lawrence, 2003) [10]; adding surprise gives Ekman's (1992) essential list of six primary emotions. Eckman's (1992) evidence found in assist of emotions being simple is a fixed of six trendy traits common to all simple emotions (e.g., short duration, presence in other primates) and three sorts of feature that exist however range among feelings: signals (e.g., facial expressions); physiology (e.g., autonomic anxious system interest styles); and antecedent events (e.g., a risky occasion going on) [11].

The above listing excludes a few feelings taken into consideration critical by way of others, such as tension, guilt, shame, envy, jealousy, compassion and love (Lazarus, 1991, p. 122). Non-basic feelings are occasionally visible as mixtures of simple emotions and appear to differ greater between cultures [12]. Emotion perception is tradition-unique due to the fact a few societies describe feelings never seemingly experienced some place else (e.g., the oft-noted "nation of being a wild" (Newman, 1964) in a new Guinea network). From the angle of felt human stories instead of on the neurological or descriptive tiers, evidently there are two essential dimensions in preference to a number of differing forms of emotions (Fox, 2008, p.120) [13]. First, the valence of a skilled emotion is the diploma to which it's significantly positive or negative. Secondly, the extent of arousal felt is the quantity of power perceived (e.g., from lethargic to hyperactive). This assertion apparently contradicts the neurological evidence above of as a minimum 5 feelings and the linguistic proof within the form of the existence of a wide range of non-synonymous phrases for emotions.

Emotional Verification in social networking comments

Gender and emotion there appears to be a widespread notion, at the least in Western societies, that girls are "the emotional gender" and that guys are emotionally inexpressive even though this notion may be decreasing. In response, studies has confirmed an inclination for girls to report feeling stronger and longer feelings and to specific them extra absolutely, besides perhaps for anger. Those findings an extensive range of worldwide cultures but are more marked in the West [14]. This standard tendency has to be certified because differences in emotion expression vary by social context and through kind of emotion. as an instance, women seem more likely than men to employ advantageous emotions in an empathetic or socially supportive contexts, known as prosocial behaviour as an example prosocial behaviour includes expressing joy for another however no longer expressing self-satisfaction. Women additionally seem greater ready to specific (negative) emotions related with vulnerability (Brody & hall, 2008), in all likelihood reflecting gender position social expectancies, whereas guys appear greater prepared to expose anger. girls see the usage of tremendous emotion among buddies as socially perfect in a way that men do now not, even though each appear to have a similar stage of knowledge about appropriate contexts wherein to express emotion [15]. The multiplied use of superb emotion by using women may additionally relate to socialisation for its importance in childcare and other worrying activities which can be disproportionately performed with the aid of girls. In assessment, men's tendency to cover their feelings in certain situations may be visible as a dysfunctional response to gender role expectancies.

Although, studies has shown people describing the same stressful occasion can also use a wide variety of various emotional phrases (e.g., unhappy, angry, dissatisfied) almost indiscriminately and that the two dimensions of valence and arousal appear to be the key underlying factors. A result of that is that figuring out valence and arousal is in all likelihood to be a long way simpler and greater reliable than different varieties of emotion detection. Nearly contracting the valence-arousal version of emotion notion, there is evidence that stages of fantastic and bad emotion aren't correlated: a individual can concurrently revel in varying degrees of both, despite the fact that they can be perceived as separate simultaneous feelings - for instance, enjoying the fear in bungee-leaping or lacking a loved one.

Importantly for emotion type within the modern-day paper, individuals understand and react to probably emotional stimuli in extensively one-of-a-kind ways. Personality variations affect the strength of emotion perceived from a stimulus and the tendency to understand a negative or high-quality context whilst there is a desire. The latter broadly reflects a pessimistic or an optimistic individual. More particularly, of the five normally known character traits in psychology are related to the capacity to revel in emotion: extraversion with effective feelings and neuroticism with poor feelings. It has also been shown that human beings react in extraordinary methods even to clean emotion expression gadgets, which includes emoticons, in the feel of drawing inferences approximately the characters of the customers. In result, regardless of existence reviews, human beings with exceptional personalities are

possibly to disagree about the power and polarity of emotion in lots of situations.

Human System Interaction in Marketing

Although nonverbal behaviour is nicely mounted as one medium for contagion, those facts advocate that contagion does no longer require nonverbal behaviour. Textual content on my own appears to be a sufficient channel. This isn't always a simple case of mimicry, either; the move-emotional encouragement impact (e.g., lowering poor posts caused an increase in tremendous posts) can't be defined by means of mimicry by myself, despite the fact that mimicry might also well have been a part of the emotion-steady effect. In addition be aware the similarity of effect sizes when positivity and negativity were decreased. This absence of negativity bias suggests that our results can't be attributed totally to the content of the submission: If someone is sharing accurate news or awful news (for this reason explaining his/her emotional nation), friends' response to the news (unbiased of the sharer's emotional expressions) ought to be stronger when horrific information is proven in place of top if the effects had been being pushed by means of reactions to news. In assessment, a response to a friend's emotion expression instead of information needs to be proportional to exposure.

A submit hoc check comparing impact sizes evaluating correlation coefficients the use of Fisher's technique confirmed no difference despite our huge pattern length. We also discovered a withdrawal impact: people who were exposed to fewer emotional posts of either valence in their news Feed have been much less expressive usual on the following days, addressing the question about how emotional expression influences social engagement on-line. This observation, and the reality that people were greater emotionally nice in reaction to nice emotion updates from their pals, stands in evaluation to theories that advise viewing effective posts through pals on FB may by some means have an effect on us negatively, for example, via social evaluation. In reality, that is the result whilst humans are exposed to less wonderful content material, rather than extra.

Experimental and Result Analysis

Marketing strategy used for making people believes and provide positive feedbacks over the product or concept to be marketed.
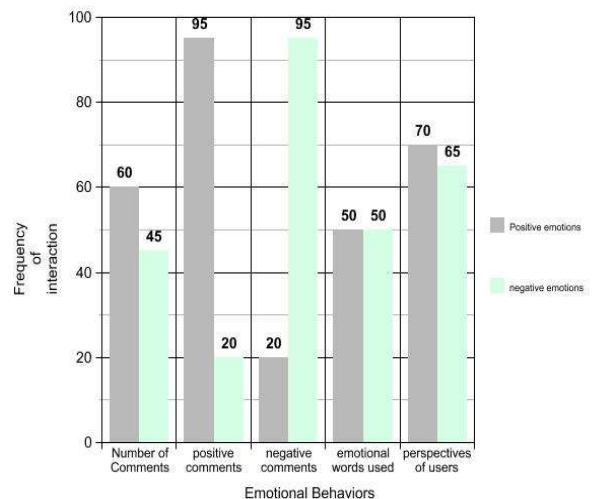
The number of positive and negative feedbacks required for certain people to make them believe in that concept. The number of likes and comments that has various emotional based influencing over the human computer interaction. In other ways the system analyzed emotional behaviours of personal comments based analysis.

The frequency of interactions based on the number of comments made by the users, positive impact over comments, negative impact over comments, emotional words used in maximum and the actual perspective of the user to decide upon the situation. According to this emotional behaviour analysis of social interaction and networking sites the particular marketing strategy will be analyzed.

CONCLUSION

In our paper we discussed those tendencies can be explained as the idea to examine one's very own regular lifestyles selections and their rationality to an imagined 'absolute' rational behaviour defined by the rational preferences of concept. The tension is triggered by means of a clash of a conduct that is affordable in a normal existence context, however seems as excessive whilst it's far as compared to basic utopian norm. The negative emotions expressed in the media diaries may be defined as guilt and embarrassment, to a positive degree additionally shame. The embarrassment arises from the social norms connected to computer and social media use; it is usually considered negative to devour an excessive amount of media. The guilt is extra connected to the time thing; too much time spent on social media in preference to different, greater important tasks escalate into emotions of negative conscious and guilt. The marketing strategies having anxieties and poor emotional reactions attributable to energetic social media uses the mixed feelings expressed in the media diaries whilst refection upon a frequent social media use, should partly be defined by using clashes in the underlying complicated (regularly unconscious) decision-making manner where a steady balance between the man or woman's very own rationale and social norms and judgments.

References

Hatfield E, Cacioppo JT, Rapson RL (1993) Emotional contagion. Curr Dir Psychol Sci 2(3):96-100.

Fowler JH, Christakis NA (2008) Dynamic spread of happiness in a large social network: Longitudinal analysis over 20 years in the Framingham Heart Study. BMJ 337:a2338.

Rosenquist JN, Fowler JH, Christakis NA (2011) Social network determinants of depression. Mol Psychiatry 16(3):273-281.

Cohen-Cole E, Fletcher JM (2008) Is obesity contagious? Social networks vs. environmental factors in the obesity epidemic. *J Health Econ* 27(5):1382-1387.

Aral S, Muchnik L, Sundararajan A (2009) Distinguishing influence-based contagion from homophily-driven diffusion in dynamic networks. Proc Natl Acad Sci USA 106(51):21544-21549.

Turkle S (2011) Alone Together: Why We Expect More from Technology and Less from Each Other (Basic Books, New York).

Guillory J, *et al*. (2011) Upset now? Emotion contagion in distributed groups. Proc ACM CHI Conf on Human Factors in Computing Systems (Association for Computing Machinery, New York), pp 745-748.

Kramer ADI (2012) The spread of emotion via Facebook. Proc CHI (Association for Computing Machinery, New York), pp 767-770.

Pennebaker JW, Chung CK, Ireland M, Gonzales A, Booth RJ (2007) The development and psychological properties of LIWC2007. Available at http://liwc.net/ howliwcworks. php. Accessed May 10, 2014.

Golder SA, Macy MW (2011) Diurnal and seasonal mood vary with work, sleep, and daylength across diverse cultures. Science 333(6051):1878-1881.

Thusoo A; Facebook Data Infrastructure Team (2009) Hive-A warehousing solution over a map-reduce framework. Proc VLDB 2(2):1626-1629.

Baumeister RF, Bratslavsky E, Finkenauer C, Vohs KD (2001) Bad is stronger than good. Rev Gen Psychol 5(4):323-370.

Festinger L (1954) A theory of social comparison processes. Hum Relat 7(2):117-140.

Prentice DA, Miller DT (1992) When small effects are impressive. Psychol Bull 112(1): 160-164.

Bond RM, *et al*. (2012) A 61-million-person experiment in social influence and political mobilization. Nature 489(7415):295-298.

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