

Exploration of Social Attitudes and Summarization of Film Reviews

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Received: 14.05.2022 • Accepted: 31.05.2022 • Published: 30.06.2022 • Final Version: 30.06.2022

Abstract: The goal of this study was to identify the specific characteristics of internet reviews that made them useful. An online movie review site, Rotten Tomatoes, was used to gather online movie reviews. The online impact factor review methodology developed in this research makes use of data mining methods. A study found that article quality influences users' views of the effectiveness of interventions. When a reviewer has a happy mood, a strong emotional predisposition, and a high degree of review reliability, their material is more effective. Negative emotions, on the other hand, are less beneficial and weaker. Emotionally charged assessments are shown to have a greater number of reviews and tend to be more effective. The results of this study, which looked at how people evaluate online reviews, could help come up with new ways to predict economic success.

Keywords: usefulness, data mining, positive and negative emotions, online reviews.

1. Introduction

We have enabled online site to give the unrivalled network advertising [1]. Customers are increasingly sharing customer feedback and experiences online, which would be a unique type of these evaluations [2], according to both researchers and practitioners, have a significant impact on consumers' opinions and buying behaviour, as well as having essential importance in recruiting consumers (Willesden, 2011). User reviews may help prospective customers make better decisions by providing information and reducing ambiguity (Yin, 2012). As a result, businesses are pushing customers to participate in online consumer evaluations. Simultaneously [3], the huge data generated by the big data age has resulted in issues such as data overloading with varied validity of evaluations. As a result, the effectiveness of user reviews may be harmed. Some plugins particular appreciations to the aspects of internet sites, including ranking icons beside the review column that [4] allow consumers displaying helpful to prevent these issues (Mudambi and Schuff 2010) [5]. Those polls may help to reduce data overload, improve customer choice effectiveness, and filter meaningful viewpoints more successfully [6]. Scholars are still debating whether kind of internet reviews are beneficial to customers.

In terms of past research on the subject,

- Online review studies primarily focus on the impact of internet reviews and their influence on commodities buyer and seller intent [8]. Wang and Van (2013), as an example, to analyze how online review qualities impact sales; Ning and Sun (2014) used survey techniques to investigate how user

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reviews influence customers buy intentions investigated [7] the utility of as well as discovered that analysis rate, review quality, user ranking, and purchase unique experiences all impact customers' opinions of online reviews' utility.

- Nelson (1970 and 1974) defined things as familiar brands as well as experience goods from the standpoint of economic literature. Customers may get correct information about search products by searching even before purchasing them, like as cameras; however, consumers to know correct info about experience products [9]. The majority of existing study on the utility of online reviews is focused on search goods, with study on merchandise being rather scarce.

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- Past research has sought to determine the characteristics that influence the effect of internet reviews. As shown in Tab. 1, various research investigates the utility. While there has been progressing in this field, there is always something to get discovered: for starters, while there is a lot for purchases, there's really considerably lesser particularly exploratory study. Moreover, many previous literary results are inconclusive; Jiang (2015) stated [10] that the major cause again for discrepancies is because they overlook the importance of the moderation element. Lastly, however, customers interpret and use review data is a complicated decision-making process that may be impacted by different factors. The present study, on the other hand, concentrates also on the aggregate level and ignores the reviewer's individual qualities, particularly social aspects (Guo, 2012).

- The emphasis of the article was on the content aspect of the online review. We add the essential moderator's factor, as Jiang (2015) indicated. This article examines social aspects based on the utility of customer assessment using 737 legitimate opinions at douban.com. The reviews of experiential goods are the topic of all this research.

2. Methodology

We developed an innovative approach to determine what valuable internet reviews for experiential items are. We hypothesized that review length, timing, and extreme ranking would all influence the review's utility, with the direct association between extreme ranking and utility tempered by the number of reviews.

2.1. Length of the Review

The quantity of lines in a consumer review is referred to as the duration or depth of the review. Extended reviews, according to Mudambi & Schuff (2010), can encourage customers to study the reviews attentively, improve or adjust their initial attitudes, decrease consumer doubt, its utility, and as such the duration of a review has a favourable effect on its utility. As a result, we contend that now the duration of a review would encourage customers to study the evaluations, hence increasing the utility of online reviews. As a result, we propose the following hypothesis:

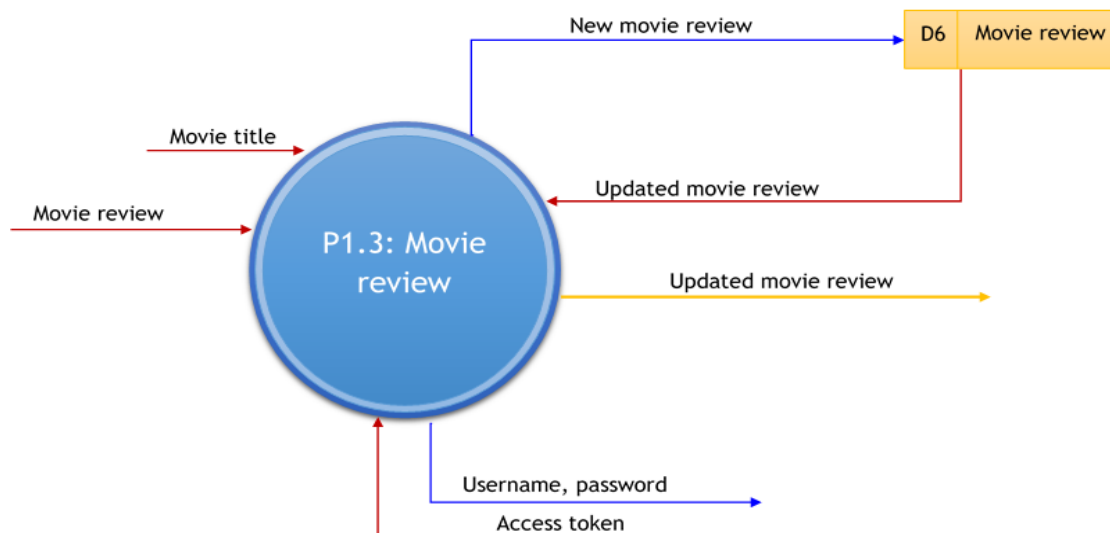


Figure 1. Flowchart of movie review.

2.2. Examine the timeliness

According to Hao (2010), as the length of time a review is released, the amount of attention paid to the film decreases, and the usefulness of the review decreases. Many studies have shown that timing are an important aspect of review quality (Chen & Tseng, 2011), hence we suggest that:

H2: its timing influences the efficacy of a review.

2.3. Examine Emotion:

The majority of the existing work on an emotional review focused on pleasant reviews reflect pleasant sentiment or positive effect. Negative reviews signify negative feeling or negative effect. On several review systems, reviews are categorized into several experts pointed out in earlier studies on word-of-mouth transmission that negative reviews have a greater effect on the collective decision over mouth publicity. People give greater attention to bad word of mouth than to good word of mouth. As a result, numerous researchers have looked at the consequences of online negative reviews or low ratings on the impact of internet reviews and consumer satisfaction (Ning, 2014). However, several academics have made counter-arguments in past years. Sen (2007), for example, reminds us that, according to attribution theory, individuals prefer to assume that bad evaluations are motivated by religious considerations rather than objective ones, hence negative reviews are less credible than good reviews. Adaval (2001) discovered that positive ratings are more beneficial for experiencing items than negative evaluations, based on a study of various kinds of products. When customers read evaluations for product attributes, they anticipate the experience good to provide them with pleasure and hedonic utility, according. With such a high bar set, customers are more likely to trust favorable evaluations. We will look at the impact of emotional states in evaluations for experiential items using these contradictory viewpoints.

Second, in terms of the intensity of review feeling, according to Schlosser (2011), reviews having strong points or terrible ratings are seen as more valuable than ones with balanced scores are. Neutral reviews are more ambiguous and are seen to be lacking in the relevant information. Reviews with severe ratings, on the other hand, clearly indicate the reviewer's personal emotional inclination and

include more particular information, making them more informative. Furthermore, since we are focusing on evaluations of experiential items in this research, we anticipate that positive ratings will be more valuable than negative ones, as Schollosser (2011) argues.

As a result, we propose:

H3: A good deviation from the overall grade has a favorable impact on the effectiveness of the review.

H4: The negative divergence from the average score seems to have a positive impact on the effectiveness of the review.

H5: The influence of a positive impact in average score on review usefulness is larger than the impact of a negative variation in average score.

2.4. Communication Situation

The number of reviews influences the likelihood, as the overall number of reviews for a certain product climb, the likelihood that customers would view a particular review diminishes. Consumers, on the other hand, will be more inclined to read a particular review if the overall number of reviews for such a product is minimal. As a result, buyers will become more attentive to severe opinions when there are few online reviews. As a result, the overall number of reviews will moderate the link among review excessiveness and review effectiveness.

H6: The association between both the positive contribution in average rating and the effectiveness of reviews is moderated by review frequency. The bigger the favourable difference just on effectiveness of internet reviews, the fewer reviews there are.

H7: The association between both the negative difference in average score and the effectiveness of reviews is moderated by review quantity. The negative difference has a bigger influence on the effectiveness of digital reviews when there are fewer reviews.

3. Working Procedure

3.1. Information

Data was gathered using software through douban.com, the brief reviews from the pages of the ten most outstanding films of the voting for each review. The crawling procedure lasted until 9:00 a.m. on January 18, 2016, at which point the median star rating for the films was recorded. A total of 432242 reviews have been collected. We selected reviews with under useful review votes «4) going to follow. As a result, a total of 737 internet film reviews were employed in the study.

3.2. Important variables

In the research framework, there are six critical variables. The variable is the effectiveness of reviews online. We measured it using useful review vote, and the result is consistent and more first review date is indeed the various valuation index of the average timing. Multiple control variables were used: film number and film douban rating. The usefulness influence factor structure for online reviews is shown in the regression analysis. To minimize heteroscedasticity, logarithm transforms were applied to the effectiveness (helpful), length (len), and timing (lqir;lpfol) of online reviews.

3.3. Results

Statistics of Descriptive

Type There are no discrete variables in this study. The logarithmic of the effectiveness votes is around 134 votes, with an average duration of 75 words.

Results of Regression

We utilize multilevel multiple linear regression to see if the effectiveness of online reviews is influenced by their length, variations with average world class level, and review timing. In the favorable impact on their utility, supporting H1. The findings revealed that the usefulness of online reviews is harmed by review timeliness. The hypothesis 2 was supported by $W=-0.1994$, $p(O.O I)$. Similarly, a positive difference impact factors model is now in Model2.

Ward's Test

Saying overcome this 5, a complete average others world class level has a greater impact just on effectiveness. The Word check could be used to see if two or even more factors' values are equal.

The Debate

H1 is supported, demonstrating that the lengthier the review, the much more satisfied customers will find it valuable demonstrating timelier valuable it is backed up, but H4 is not. The larger the favorable difference in reviews when compared to the average star, the more beneficial the review. However, the review's negative distinctions are minor. This study supports Schlosser's (2011) emotion-based arguments on customers' understanding of experiential goods reviews. Before making a purchase decision, consumers frequently read online customer reviews. Because they assume the item to bring them pleasure, customers are more likely to listen to good comments that match their psychological expectations, and people believe that severe good consumers will receive helpful information. In order to obtain correct commodities experienced data, review readers will find extreme reviews more useful than moderate evaluations. This suggests that the review's utility is more complex, and that further research into the impact mechanism is required. H5 is supported; econometric findings, on the one hand, support Sen's (2007) argument, namely, that negative reviews are more likely to be seen as lacking in validity, and that positive evaluations are given more weight when it comes to experiential goods. H7 is acceptable, but not H6. The empirical findings indicate that the number of reviews number of reviews has no bearing on the connection between strong positive sentiment and the usefulness of the review.

4. Conclusions

The article examined elements that may influence users' perception of the usefulness of internet reviews for experiencing things by trawling movie review data and conducting empirical research. The impacts of review length, happy and negative emotions, and review timing on intervention effectiveness were all investigated in detail. The study analyzed past literature contribute to resolving the discrepancies in the results on the effects of positively and negatively reviews on review usefulness perceptions. In terms of application, the empirical findings of this research can assist Internet enterprises in developing a review prediction model and more systematically managing online reviews for experiential commodities. To identify reviews with reliable information based on review features, for example, and to deliver diagnostic accuracy information to the potential

consumers. This paper, of course, has some flaws. Text mining and semantic analysis may be used in future research to further understand the relationship between textual qualities and the review's effectiveness.

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