Ml Based Naive Bayes Methodology for Rate Prediction Using Textual Rating and Find Actual or Movie Rating Based on Mbnbr Optimization

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Abstract: We've experienced a bulk of review pages such as Amazon, Flip Kart & Facebook, book my show and some applications etc., in latest studies. It offers an excellent chance to share our reviews for different goods we buy. However, we are faced with the issue of duplicating data. It is essential where to stock precious data from feedback to comprehend the desires of a user and create a precise suggestion. Some variables, such as user buy documents, item type, and geographic place, are considered by conventional recommendation schemes. We suggest a Feeling Forecast Technique (FFT) in this job to enhance forecast precision in recommendation schemes. First, we suggest a personal assessment strategy for personal consumers and determine the feeling about objects/products of each customer. Second, we regard not only the own emotional characteristics of a customer but also the relational emotional impact. After which they count the credibility of the item that could be deduced from a consumer sets emotional scores reflecting the extensive assessment of clients. Finally, we combine in our recommendation scheme three elements feeling resemblance relational emotional, impact, and notoriety resemblance of item to create a precise forecast of rating. On an actual-world sample obtained from Glass door, we undertake a quality assessment of the three emotional variables. Our findings show that the feeling can well describe display settings that help improve the effectiveness of recommendations. Above all discussion is analyzed with ML based Naive Bayes optimization got 20% more efficiency compared to existed methods like linear regression, etc.

Index Terms: Naive Bayes Classifier, PD (Positive Dictionary), SDD (Sentiment Degree Dictionary), ND (Negation Dictionary), Social Media, move ML based naive Bayes rate prediction (MBNBR) OPTIMIZATION.

I. INTRODUCTION

Web writing reviews contain a lot of private data that performs a really significant portion of decision-making procedures. For illustration, when he or she perceives useful comments posted by the others, particularly the reliable colleague of the client, the client can determine how to purchase. We think critics and writers will assist with the score estimation based on this belief, all this with excellent reviews high-star scores can be highly connected. Where to mine feedback and the relationship between researchers in social media sites has therefore be an significant problem in internet mining, artificial intelligence and the handling of natural languages. We concentrate on the assignment of scoring forecast. However, on several evaluation pages, the rank allotment is based on star-level. In contrast, reviews

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comprise sufficient comprehensive brand data and customer view data that has excellent reference importance for a user's choice. Most importantly, not that every product can be rated by a specified customer on the blog. Therefore, a customer database contains a lot of unreleased products. In many methods to ranking forecast, it is necessary e.g.[1],[4]. As we all understand, review / remark is often accessible. In such cases, leveraging customer feedback to assist forecast unreleased products is useful and essential. The rise like DouBan1, Yelp2 as well as other study locations provides an extensive concept of customer inclinations in mining also anticipating customer assessments. For the most portion, the benefit of the customer at current is constant, so that audit topics can be an officer. For instance, in the classification of Cups and Mugs, various individuals have various tastes. A few people focus on the quality, a few people center

Around the cost and others may assess thoroughly. Whatever, they all have their customized points. Most subject models present clients' interests as point conveyances as per audits substance [10],[13],[24], [25], [31]. They are broadly connected in conclusion investigation [37], travel proposal [34], and interpersonal organizations examination [19]. Assumption investigation is the most crucial and significant work to removing client's advantage inclinations. When all is said in done, slant is utilized to portray client's very own demeanor on things. We see that in numerous viable cases, it is more critical to give numerical scores as opposed to parallel choices. For the most part, surveys are separated into two gatherings, positive and negative. Be that as it may, it is hard for clients to settle on a decision when all competitor items reflect positive supposition or negative assumption.

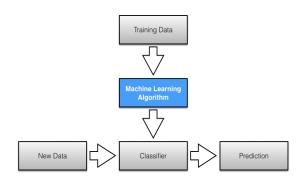


Figure: 1 rate prediction using ML- naïve bayes

To settle on a buy choice, clients not just necessity to know whether the element is great, yet additionally necessity to know how great the item is. It's likewise concurred that

various individuals mightconsume distinctive wistful articulation inclinations. For instance, a



MI Based Naive Bayes Methodology For Rate Prediction Using Textual Rating And Find Actual Or Movie Rating Based On Mbnbr Optimization

few clients want to utilize "great" to depict an "amazing" item, while others may want to utilize "great" to portray an "equitable so" item [20]. In our day-to-day lives, with extremely praised audits, customers are well on the manner to buying those products. That is, clients are increasingly worried about thing's notoriety, which mirrors purchasers' thorough assessment dependent on the inherent estimation of a specific item. To become the notoriety of an item, notion in audits is significant. Ordinarily, if thing's audits reflect positive opinion, the thing might be with great notoriety all things considered. On the other hand, in the case that the polls of the thing are packed with adverse bias, the thing is being with awful fame at that stage. To a specified product, we can collect the fame and even the full assessments on the off opportunity that we understand the customer assumption. Looking at the web for acquisition, respectively favorable studies and adverse audits are important to be used as a guide. We can understand an item's upsides for favorable studies. We can obtain the inadequacies for adverse studies if there should be a bamboozled event. Therefore, investigating those researchers who have a definite and targeted attitude on stuff is worthwhile. We see the impression of commentators affecting others:If a commentator has a definite look as well as angle aversion, he / she will be given a lot of account by distinct customers. Be that as it may, the assessment of the customer is hard to predict, also the emotional neediness of relational wistful impact makes the investigation of social customers an extraordinary problem. Our methodology's main obligations are as follows: 1) we suggest a wistful customer assessment strategy that relies on mined view statements and estimate degree phrases from customer studies. Some flexible apps are also being suggested. We explore, for example, how the mined angle distributed among the friends of customers. In addition, we influence social clients' opinion to surmise thing's notoriety, which indicated extraordinary improvement in precision of rating expectation. 2) We utilize slant for rating expectation. Client slant closeness centers around the client intrigue inclinations. Client conclusion impact reflects how the assumption spreads among the confided in clients. Thing notoriety closeness demonstrates the potential significance of things. 3) We intertwine the three variables: client notion likeness, relational nostalgic impact, also object notoriety comparability into a probabilistic grid factorization structure to complete an exact proposal. The trial results and talks demonstrate that client's social opinion that we excavated is a key feature in improving rating forecast exhibitions.

II. LITERATURE REVIEW

R. Salakhutdinov, and A. Mnih, [1] contemplate on "Probabilistic lattice factorization related rate forecast is explained.X. Yang, H. Steck, also Y. Liu, [2] clarifies that "Circle-based suggestion in online interpersonal organizations this works is procedures of web based life related information expectation and score, " M. Jiang, P. Cui, R. Liu, Q. Yang, F. Wang, W. Zhu, and S. Yang, [3] "Social relevant information forecast and proposal," M. Jamalias well as M. Ester, [4] "A lattice factorization method with trust engendering for proposal in informal communities accomplishes great outcomes," Z. Fu, X. Sun, Q. Liu, et al [5] "Accomplishing Efficient Cloud Search Services: Multi-Keyword Ranked Search over Encrypted Cloud Data Supporting Parallel Computing

positive and negative degree words idea," G. Ganu, N. Elhadad, A Marian, [6] "Past the stars: Improving rating expectations utilizing star rating ,Review content substance" J. Xu, X. Zheng, W. Ding, [7] "Customized suggestion dependent on audits and appraisals mitigating the sparsity issue of collective sifting got successful and exact outcomes X. Oian, H. Feng, G. Zhao, and T. Mei, [8] "Customized proposal joining client intrigue and group of friends, similar to twitter watts application and so on" H. Feng, and X. Qian, [9] "Suggestion by means of client's character and social relevant information is anylized Z. Fu, K. Ren, J. Shu, et al [10], "Empowering Personalized Search over Encrypted Outsourced Statistics with Efficiency Development D.M. Blei, A.Y. Ng, and M. I. Jordan, [11] "Idle Dirichlet Allocation," W. Zhang, G. Ding, L. Chen, C. Li, and C. Zhang, [12] "Generating virtual evaluations from Chinese surveys to expand online proposals and logical recommendations are dissected," Z. Xia, X. Wang, X. Sun, and Q. Wang [13], "A Secure and Dynamic Multi-watchword Ranked Search Scheme over Encrypted Cloud Data J. Weston, R. J. Weiss, H. Yee, [14] "Nonlinear idle factorization by inserting various client intrigues J. Huang, X. Cheng, J. Guo, H. Shen, and K. Yang, [15] " Social and web media proposal with relational impact is clarified," Y. Lu, M. Castellanos, U. Dayal, C. Zhai [16] "Programmed development of a setting mindful estimation dictionary: an advancement approach T. Kawashima, T. Ogawa, M. Haseyama, [17] "A rating forecast technique for web based business application utilizing ordinal relapse dependent on LDA with multi-modular highlights K.H. L. Tso-Sutter, L. B. Marinho, L. Schmidt-Thieme, [18] "Tag-mindful recommender frameworks by combination communitarian sifting calculations B. Wang, Y. Min, Y. Huang, X. Li, F. Wu, [19] Review rating expectation dependent on the substance and weighting solid social connection of commentators," F. Li, N. Liu, H. Jin, K. Zhao, Q. Yang, X. Zh [20], "Consolidating analyst and item data for audit rating forecast. Estimation investigation is led on various coatings of content. Such layers be situated expression founded, sentence founded, audit based. Survey [1],[2],[7],[8] also sentence[5] put together coatings are worked with respect to entire content to endeavor grouping dependent on predefined extremity, for example, positive, negative, unbiased on entire content without a moment's delay. Then again expression based layer [13] investigation endeavors to separate the assessment extremity regarding the matter talked about in the content. Ache and others [14] talks about a setting heartless evaluative lexical strategy however is wasteful because of a confound between the base valence of term in addition to creator's use. Vivek et al [6] talk around Naive Bayes classifier container be altered to increment also competition the exactness through additional confounded replicas for nostalgic examination utilizing strategies like component choice, n-grams, refutation taking care of. Over all faces a few issues so we have to move ML-based guileless Bayes rate expectation

(MBNBR). Utilizing this

strategy expands the effectiveness rate by 20%.

III. RELATED WORK

To discover viable notion extremity of the given content audit by client. In this Existed work we right off the bat prepared the given information to expel stop words. The successions where the disputes come are measured by utilizing n-gram idea. In summation to that we depicted three extra influences for discovering opinion extremity.

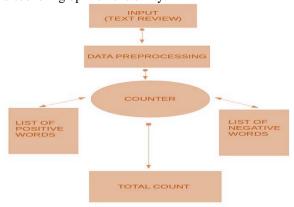


Figure 2. Count of Positive and Negative Words

In view of [7],[8] We rummage-sale SD(Sentiment Dictionary) which includes 8938 phrases respectively positive(4363) as well as negative(4575). For instance, the negative term rundown includes phrases with a favorable extremity, excellent, good, happy, satisfied, etc. For instance, the adverse sentiment term rundown includes phrases with a adverse extremity, horrible, most awful, smell, botch, and so on. We test an all-out amount of favorable phrases (P) and the all-out amount of bad phrases (N) while selecting the result for the specified data, also then we find P-N (RW). In Figure 1, RW implies the complete end of the study depending on the total amount of favorable and bad phrases. If the consequence comes away with a positive figure scale which means that the audit has a favorable extremity and if the result gets past a negative count scale which means that the study has a detrimental extremity. Zero means for study an unbiased extremity. In perspective of a comparable article, we used the Sentiment Degree Dictionary (SDD) to characterize the term depending on different degree sizes. Five distinctive sizes of SDD. L-1 (52 sentences) consists, for instance, of phrases with the most amazing amount of emotions, complete, complete, all, powerful, and so on. L-2 (48 phrases) includes phrases with a greater rate of emotions, e.g. above, how, how, how, how, by and wide, etc. For instance,L-3 (12 syllables) consists of phrases, progressively, even, etc. For instance, L-4 (7 phrases) includes phrases, somewhat, somewhat, fairly much, etc. (9 phrases) talk to the lowest dimension of the degree of sensation, consisting of phrases, for instance, less, item, not much, etc. While determining the rating (Figure 2), the phrases are regarded in each statement.

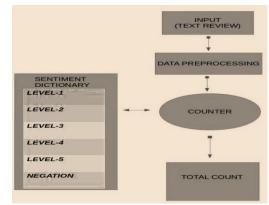


Figure 3. Sentiment Identification

We similarlyusage Negation Dictionary (ND), which contains, for instance, of 50 one-of-a-kind examples, effectively no, much just like and so forth. The rating is determined by-1) (ND where ND is speaking to include the full feature in any clause contained in the Negation Dictionary. The degree perpetual is provided in the table below:1 Here we use the [6] Naive Bayes classifier (image 3) which is a probabilistic model discovered under the law of Bayes with a well-made presumption of liberty. Words are divided in two beneficial and bad groups and are restrictively independent of each other.

			Table 1. Degree
Constant			
Level		De	words
	gree		
Level-1		5	Fully, All
Level-2		4	Above,
			Overall
Level-3		2	More, Even
Level-4		0.5	A little, A
			bit
Level-5	5	0.2	Less, Bit, Not

Despite the fact that this classifier does not influence the productivity and precision of content order yet in addition makes a grouping calculation quicker. It is a significant factor while deciding the conclusion extremity, if not dealt with in like manner it can mutilate the last yield. For instance, incredible alludes to positive notion yet the expression "Not adequately exceptional" is unmistakably a adverse angle, and since we think of each phrase as an "amazing" component in the specified phrase, it will only bring a favourable extremity. We use bi-grams (N-grams) to tackle the problem of nullification, which accept two phrases top to side as a pair and believe of it as a lonely component or phrase. In this region, we are proposing a sensation ranking model (Figure 4) for which we are using three distinctive approaches. Each method provides the details considering the extreme of the material.Later we merge each of them to get the final result, then the result will be defined and the last concept ranking will be obtained. The calculation equation for the concept:SC = NB/NC ε [RW*(-1)ND + Dw] .To standardize the score for the sentiments we use: Ns = $(10/[1+e^{(-Sc)}])-5$.



MI Based Naive Bayes Methodology For Rate Prediction Using Textual Rating And Find Actual Or Movie Rating Based On Mbnbr Optimization

Table 2. Terms in Sentiment Calculation

Term	Description					
S_C	Sentiment Calculation					
N_B	NaiveBayes					
	Probability					
$N_{\rm C}$	Number of clauses					
$R_{\scriptscriptstyle W}$	Total No. of positive Words – Total No. of negative words					
ND	Negation Factor					
$\mathbf{D}_{\mathrm{awn}}$	Degree of Sentiment					
Ns	Normalize sentiment score					

Consider a model underneath in Figure 5. The phrases in blue citation fashion refer to the phrases of judgment. The Blue Text Style sentences allude to phrases of assessment degree. The brilliant green script type sentences allude to phrases of refutation. The bleak text-style sentences allude to word mixture.



Figure 4. Output from Real time example

IV. PROPOSED WORK

Foreseeing how execution of expectations ranking products or movies from the personal site is one of the most troublesome operations. The anticipation is connected with such an important amount of factors-physical components versus physiological behaviour, rank headed and nonsensical behaviour, etc. Each of these points of view joins in making the cost of offering unexpected and difficult to anticipate with an elevated amount of accuracy. So we're using AI in this room as a separate benefit? Using shows such as the latest partnership declarations, their annual revenue outcomes, and so on, AI processes can potentially uncover instances and pieces of information that we have not seen before, and these can be used to create unerringly accurate predictions. Here we use MBNBROptimization strategy, which shows the rectangular graph below fig.5. For the scheme that has been suggested.

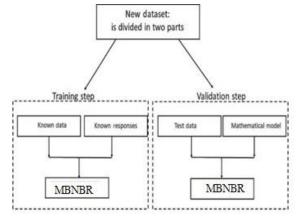


Figure: 5proposed block diagram

We will operate with verifiable data on a voluntarily registered organization's inventory expenses. We will perform a mix of AI calculations to anticipate this organization's future stock costs, starting with fundamental calculations such as MBNBR, and then proceeding to cutting-edge technologies. The information collection contains various variables—deadline, accessible, elevated, low, last, near, total quantity of trade, and sales.

- The Open and Close sections talk to the starting and final price at which the inventory is assessed on a particular product.
- High, low and last talk to the highest, lowest and last price of the product bid.
- Total Trade Quantity is the volume of deals bought or sold on the product and sales is the particular organization's billing on the particular stage.

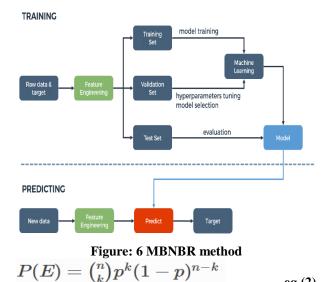
Another significant thing to take note of that the market is increasingly factor due to the rating on the item. The benefit or misfortune computation is typically dictated by the end cost of a stock for the afternoon, subsequently we will think about the end cost as the objective variable. How about we plot the objective variable to see how it's taking care of business in our information. Purchaser is progressively trusted for good item and merchant is to be kept up to decent material.

4.1 MBNBR optimization

The MBNBR is an amazingly incredible asset for intuitively creating and introducing information science ventures. A scratch pad incorporates code and its yield into a solitary report that consolidates perceptions, story content, numerical conditions, and other rich media. The instinctive work process advances iterative and fast improvement, settling on note pads an inexorably prominent decision at the core of contemporary information science, investigation, and progressively science on the loose.

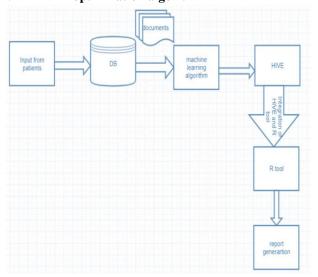
$$x \cdot y \cdot z = \sigma(y-x) = \rho x - y - xz = -\beta z + xy$$
 ----- eq(1)





We put β =0, π =0, and let α varies from 0 to 60 to examine the impact of the client's orientation comparability variable. From Fig.2, when α varies from 0 to 5, the RMSE falls in all test categories. In the mid-term, the proximity variable of the customer assumption (the fifth word in Eq.(1))container successfully assist the target work with optimizing the client dormant element vectors. It prompts a quick diminishing of expectation blunder (the principal term in Eq.(2)).

4.2 MBNBR optimization algorithm



In any case, the focal point of constraining the specified ability passes to the third term instead of the primary term when α is more than 5. The larger the weight of tuning in preparation for the fifth phase is, the littler its main word appropriate will be, which prompts a larger prediction blunder.

$$\left(\sum_{k=1}^n a_k b_k
ight)^2 \leq \left(\sum_{k=1}^n a_k^2
ight) \left(\sum_{k=1}^n b_k^2
ight)$$
 ------eq(3)

Utilizing fig.5 and 6 like NBR streamlining watch the remark from sites and anticipate the right raring from sites like amazon, motion pictures survey and so on

As to Social NBR Optimization (SSO) [25], contrasts lie in all parts of the calculation plan. A most significant distinction is that in SSO the arachnids are characterized by sexual orientation. Male and female arachnids have diverse seeking tasks. Be that as it may, the bugs in SSA share the equivalent looking task, fundamentally

lessening the exertion in execution. SSA additionally fuses the data spread model into its calculation structure, and therefore the social creepy crawly populace in SSA fits the IS model. Additionally, SSA mimics the scrounging conduct of social bugs, while SSO impersonates the mating conduct of social arachnids. The distinctions in calculation usage are increasingly patent. In SSO there are three creepy crawly development administrators executed first in parallel and after that in succession. The moving example of the third administrator profoundly relies upon the initial two administrators. This plan may conceivably build the trouble of examining the inquiry conduct of the calculation. In SSA we actualize one irregular move administrator, which joins both investigation and abuse practices in a single move. In our plan, the hunt conduct is constrained by the parameters, in this way giving a reasonable view on the inquiry conduct of the calculation. The im11 Page 14 of 37 Accepted Manuscript settlement of various parameters on the streamlining execution of SSA is additionally represented in Section 3.5. Despite the fact that EAs, similar to GA and ES, are likewise populace based calculations and unavoidably share a few similitudes with the populace based SSA, they are very extraordinary broadly useful met heuristics. They are propelled by totally unique organic orders. EAs as a rule utilize diverse recombination and decay administrators to control the arrangements, which impersonate the recovery of a life form. As expressed above, in spite of the fact that regardless we don't have a clue about the precise effect of data misfortune on the improvement procedure, this element of SSA may add to the ideal inquiry in some complex multimodal enhancement issues. The uniform structure of the populace is another potential bit of leeway of SSA. What's more, the one of a kind looking example and its hidden social creature scavenging methodology, just as the IS scrounging model, add to the general execution of SSA.

V. RESULTS

pinch funny
bum wrong complaint
hurt wildly complaint
miss insanely notorious suffers
knife sty complain hard deadly
goofy evil
concerned extort kill morons
concerned wreakslap smash crazy blame
pigabrupt bull fear tired killed abruptly
intense warning boring
concern weak hated struggle
detracts obnoxious of havoc loud helpless
obnoxious of havoc loud parody
boredom utterly

Figure: 7 negative dictionary words

Fig.7 explain that negative words from proposing dictionary words these are many words from collecting negative reviews.

MI Based Naive Bayes Methodology For Rate Prediction Using Textual Rating And Find Actual Or Movie Rating Based On Mbnbr Optimization



Figure: 8 positive words

Fig.8 explains that negative words from review from different websites like Face book, wattapp, and amazon, book my show etc.

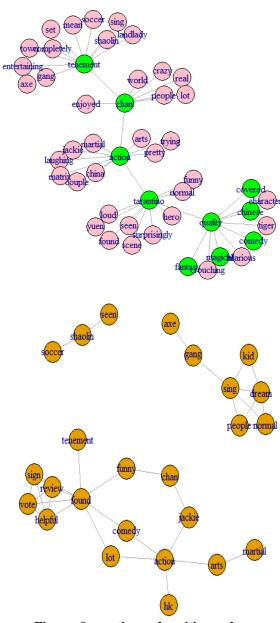


Figure: 9 negative and positive nodes



Figure: 10 frequently used words for (Sentiment Degree Dictionary)



Figure: 11 Sentiment Degree Dictionary

Table: 3 example dictionary

about	back	came	did	each	face	gave	had	of	part
above	backe	can	differ	early	face	genera	has	off	parted
	d				S	1			
across	backi	cann	differe	either	fact	genera	have	oft	partin
	ng	ot	nt			lly		en	g
						,			
after	backs	case	differe	end	facts	get	havi	ol	parts
arter	bucks	cusc	ntly	Ciid	idets	get	ng	d	parts
			,				6	u u	
again	be	cases	do	ended	far	gets	he	ol	per
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								st	
all	becau	certai	done	ends	few	given	here	on	place
	se	nly							

Consider an instance in real time in figure 11 below. The phrases in the blue font apply to phrases of feeling. The phrases in the yellow font apply to phrases in the degree of feeling. The light blue font phrases apply to expressions of negation. The white font phrases apply to the phrases of the combination.if (rating<2.0 and rating>=0)

{ Movie rating = 1 star }
if (rating>=2 and rating<3)
{ Movie rating = 2 star }
if (rating>=3 and rating<4)
{ Movie rating = 2.5 star }



if (rating>=4 and rating<5) { Movie rating = 3 star } If (rating>=5 and rating<6) { Movie rating = 3.5 star}



Figure 12. Real time example

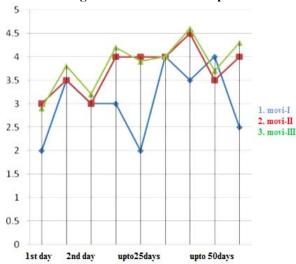


Figure: 13 output from experiment

Fig. 12 and 13 explains that this is a rate prediction from MBNBR optimization which is obtain from r studio data base.

Table: 2explains that rate prediction based on review from different reviewers, these are collected for rating prediction purpose.

Table: 2 comparison table

Tueste. 2 companison mere							
parameter	Existed	Proposed	% change				
	method	method					
Efficiency	65.54%	91.78%	26.24%				
			increases				

VI. CONCLUSION

A mining method is provided in this research is to be used in different proposal structures. In this we merge the extreme hypothesis with the probability of giving the suggestion frameworks a gradually constant rating. We used survey scheme in our preordained points before we gave the rating the strategy of using set of words. This introduction of probability enables to verify the shortcomings that mighthappen in the lexicon used through the customers. Our examination job also distributed the graphical assessment mining used in the studies by ML.Multi-day studies currently constitute the majority of smiley so mining ML will be useful for knowing the concepts of the client. This concepts also useful for telemedicine applications [21]. Additional issue which isn't tackled is the issue of mockery however the likelihood of respect in survey is less yet it's as yet conceivable. Another issue is utilization of unstructured language which is pervasive today. Clients additionally will in general blend at least two dialects for giving surveys which must be tended to by the audit based proposal frameworks and furthermore got 26.24% of effectiveness more contrasted with existed strategy.

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