

Customer Activation and Retention Project

Submitted by:

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ACKNOWLEDGMENT

Research paper that I find it useful for the completion pf the project is; -

REFERENCES

1) Vikas Kumar, Ogunmola Gabriel Ayodeji, "E-retail factors for customer activation and retention: An empirical study from Indian e-commerce customers" Article in Journal of Retailing and Consumer Services, November 2020.

INTRODUCTION

Business Problem Framing:

- Customer satisfaction has emerged as one of the most important factors that guarantee the success of online store; it has been posited as a key stimulant of purchase, repurchase intentions and customer loyalty.
- A comprehensive review of the literature, theories and models have been carried out to propose the models for customer activation and customer retention.
- Five major factors that contributed to the success of an ecommerce store have been identified as: service quality, system quality, information quality, trust and net benefit.
- The research furthermore investigated the factors that influence the online customers repeat purchase intention. The combination of both utilitarian value and hedonistic values are needed to affect the repeat purchase intention (loyalty) positively.
- The data is collected from the Indian online shoppers. Results indicate the e-retail success factors, which are very much critical for customer satisfaction.

Conceptual Background of the Domain Problem:

- In this project, we have dataset of customer activation and retention. The essential target of this review is to propose and break down the internet-based retail achievement model with accentuation on demonstrating qualities to the clients.
- This work proposes two online retail success models and analyse them with the data collected from online retail customers in India.
- First model fuses the elements important for customer fulfilment, which in goes prompts buy/rehash buy goals. While the second web-based business achievement model clarifies customers inspirational qualities vital for repurchase choice and reliability, and in particular how these qualities might contrast starting with one client then onto the next.

Review of Literature:

This task incorporates two exploration models; the main model presents the elements vital for the shoppers buy/re-buy choice (Activation Model), while the other examination model presents how persuasive qualities can rouse client unwaveringness towards an e-rear (Retention Model).

Motivation for the Problem Undertaken:

Aim of the information examination was to distinguish the relaxed connections that exist between factors. Different shopping esteems and web highlights impact the various gatherings of online customers. For online retailers, advertisers and retail site designers, the result of the review is of outrageous significance to target explicit shopping sections.

Analytical Problem Framing

Data Sources and their formats:

- Data was occupied from online shoppers; work has been focussed upon reading the customers mind of using an app and purchasing decisions.
- The dataset consists of 269 columns and 71 rows. All the variables are focussed on the feedback given by the customers.

Data Preprocessing Done:

- Checked for null values but I didn't find any so moved ahead in checking the normal information about the dataset.
- We did univariate analysis and bivariate analysis of the dataset.

Hardware and Software Requirements and Tools Used:

Hardware Requirements: -

- 1) Processor: 7th gen core i5 or above.
- 2) RAM: 4 GB DDR3 or above.
- 3) HDD/SDD: 128 GB or above.
- 4) GPU: Intel iris plus graphics 640 1536 MB or above.

Software Requirements: -

Anaconda software must be installed with all the necessary libraries like pandas, numpy, matplotlib, seaborn.

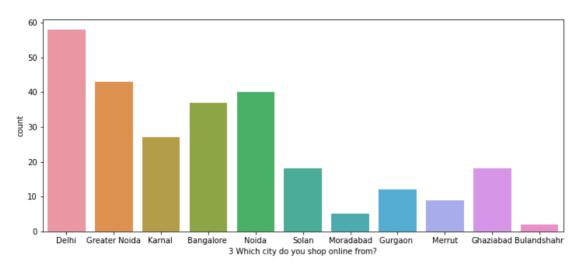
Model/s Development and Evaluation

<u>Identification of possible problem-solving approaches</u> (methods):

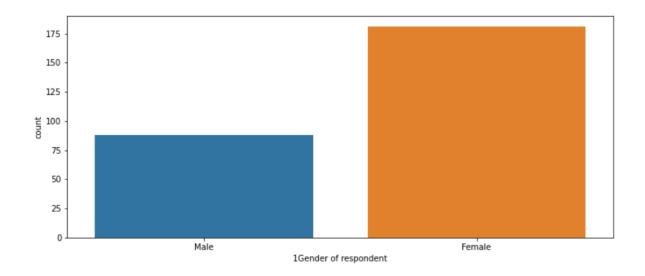
- Data preparation
- Data cleaning
- Data analysis
- Conclusion

Visualizations:

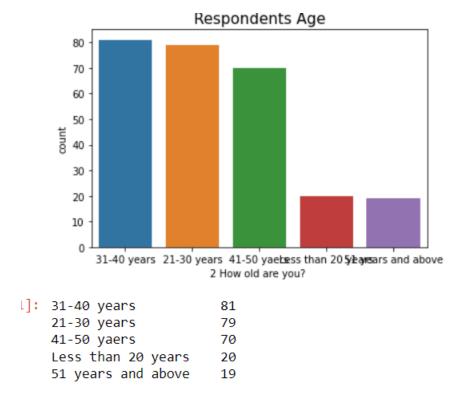
Let's take a look at the visualizations of the dataset



From the above graph we can see that the respondents are more from Delhi, followed by greater Noida and Noida, and the least amount of respondents are from Bulandshahr.



From the graph its clearly seen that female respondents are more in number than the male respondents. The actual count of female respondents is 181 and male respondents are 88.

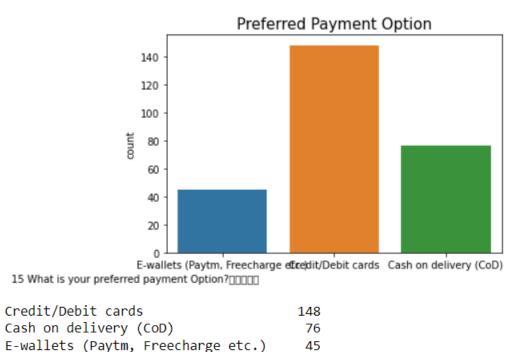


Most of the respondents age is between 21-50 years. So, we can say that most of the people's age who can do shopping from online store is

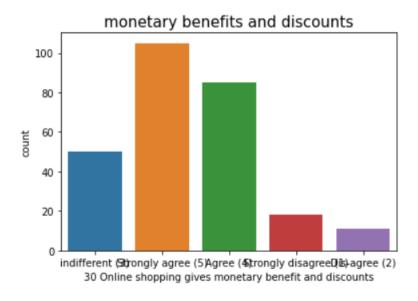
between 21-50 years, while least number of people use e-commerce website whose age is below 21 years and above 50 years.



From the above graph we can see that, most of the respondents have experience of online shopping is more than 4 years and least number of respondents have experience of online shopping is 1 to 2 years.

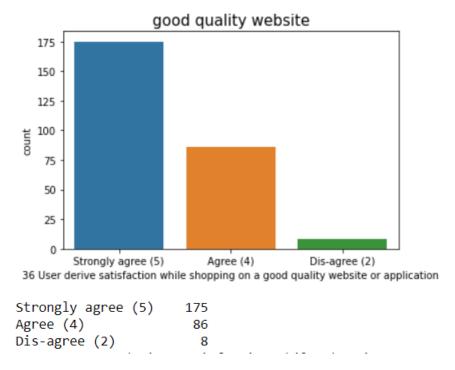


we can see that majority of the respondents pay the via credit/debit cards which is 148 respondents, whereas least method used for payment is e-wallets which is 45.

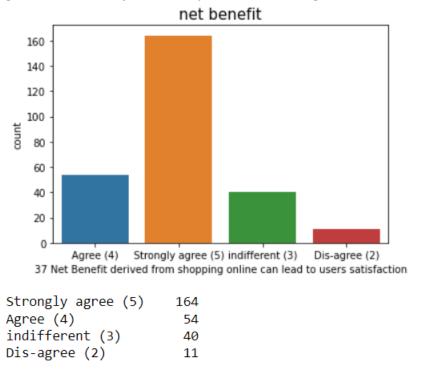


Strongly agree (5)	105
Agree (4)	85
indifferent (3)	50
Strongly disagree (1)	18
Dis-agree (2)	11

Most of the respondents strongly agree that online shopping does give monetary benefits and discounts whereas there are very few people disagree that it doesn't give monetary benefits and discounts which is 11.



Above graph is plotted for, User derive satisfaction while shopping on a g ood quality website or application graph, in which we can see that out of 269 respondents 175 of them strongly agree that the quality of website is good whereas just 8 respondents disagree

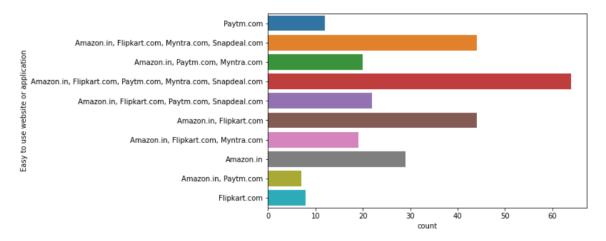


Above graph is plotted for, Net Benefit derived from shopping online can I ead to users' satisfaction, majority of customers strongly agree that, shop ping online did give them net benefit, i.e., time, money, delivery.

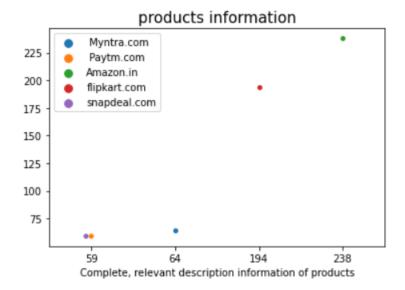


From the following, tick any (or all) of the online retailers you have shopped from

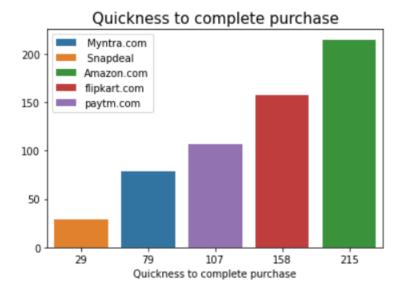
Above graph is plotted for respondents have shopped from the online ret ailers are 269 respondents prefer using amazon website for shopping whe reas 146 respondents use Myntra website for shopping which is the least. (This is a graph for respondents who uses multiple websites for shopping.



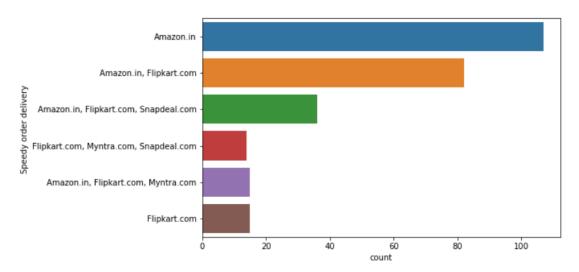
Above graph is plotted for the websites which are easy to use in which we can see that, majority of the respondents think that all the websites are e asy to use for shopping (Amazon.in, Flipkart.com, Paytm.com, Myntra.co m, Snapdeal.com) than the others.



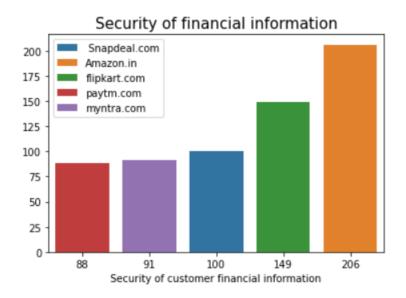
Above graph is plotted for the website which gives a complete information of the product, in which we can see that 238 respondents says that amazon gives the complete relevant description information of products, whe reas 59 respondents feel that Snapdeal and Paytm gives the complete relevant description of products which is the least of all.



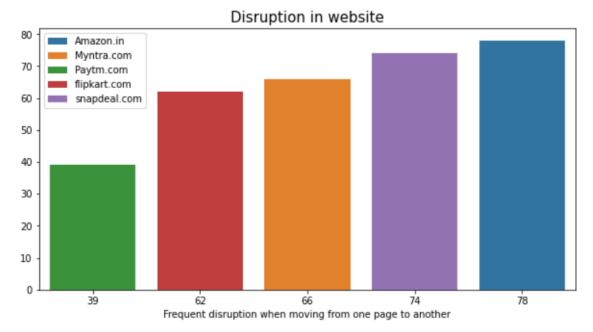
Above graph is plotted for the online retailers which gives quickness to complete the purchase and it is deduced that 215 respondents believe that amazon has the quickness to complete purchase whereas Snapdeal has the least number of respondents believing that it has quickness to complete purchase.



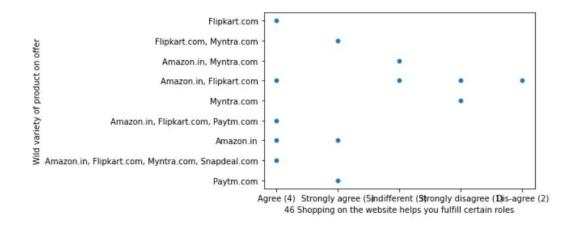
Above graph shows is plotted for which online retailers gives a speedy delivery of the product, in which we can see that 107 respondents believe th at amazon.in has the speedy order delivery whereas Flipkart.com, Myntra.com, Snapdeal.com has the least respondents believing in speedy deliver y.



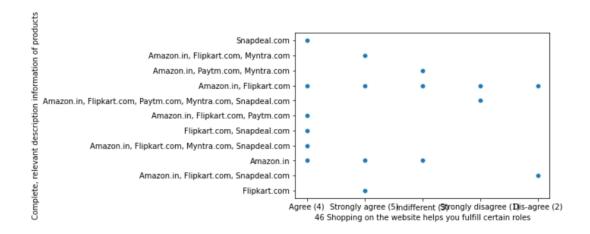
Above graph is plotted for the security of the customers financial information in the individual online retailers and it can be seen that, 206 respondents believe that amazon.in has the security of customer financial information whereas 88 respondents believe that Paytm has the security of financial information which is the least.



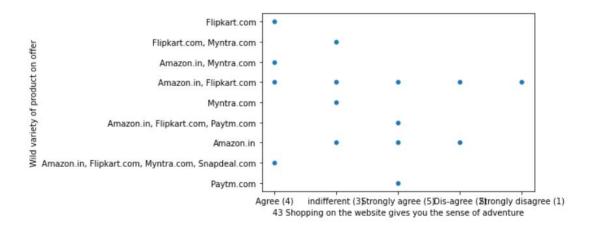
Above graph is plotted for the frequent disruption when moving from one page to another and it can be seen that 78 respondents says that amazon has frequent disruption when moving from one page to another,74 respondents says that Snapdeal has frequent disruption when moving from one page to another,66 respondents says that Myntra has frequent disruption when moving from one page to another,39 respondents says that Paytm has frequent disruption when moving from one page to another which is the least. Disruption is moving from one page to other may result in a smaller number of sales or bad user experience.



From the above scatter plot, we can see that Shopping on the website hel ps you fulfil certain roles (Hedonic value) and wide variety of product on o ffer (Utilitarian value) are positively correlated to each other.



From the above scatter plot, we can see that Shopping on the website hel ps you fulfil certain roles (Hedonic value) and Complete, relevant descripti on information of products (Utilitarian value) are positively correlated to each other.



From the above scatter plot, we can see that Shopping on the website gives you the sense of adventure (Hedonic value) and Wild variety of product on offer (Utilitarian value) are positively correlated to each other.

CONCLUSION

Key Findings and Conclusions of the Study:

- To run an effective web-based retail sore, accentuation should be given to the factors important for client fulfilment. For example, items data, framework and administration characteristics, net advantages, and so forth By and by, e-rears are needed to incorporate different advantages also to make worth to the client. From the examination we can say that the nature of framework, data, openness, security, and convenience are expected to speak to the buyer's utilitarian qualities. On the other hand, to speak to the gluttonous upsides of the customer, the e-store should consolidate components that would offer worth to the joy looking for conduct of clients; for instance: experience, satisfaction, job shopping and so forth.
- Online retailers should zero in on the data quality and framework nature of the internet-based retail sites to upgrade consumer loyalty, which thus will prompt repurchase choice. Both the utilitarian and decadent qualities prompted consumer loyalty and extensively animate their repurchase aim, prompting reliability.

Limitations of this work and Scope for Future Work:

Restriction of the review is the utilization of web-examination in its exemplary structure, which is to quantify clients' communication with the site. Future examinations might be directed utilizing measurable examination of the information.