

# DATA - ANALYSIS FOR CUSTOMER ACTIVATION & RETENTION

Submitted by:
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# ACKNOWLEDGMENT

This project includes the professional reference of much external research analysis done by various organisations and individuals. Such references are mentioned below:

1. Consumer's perceptions of website's utilitarian and hedonic attributes and online purchase intentions: A cognitive–affective attitude approach

https://www.sciencedirect.com/science/article/pii/S2444969516300191

2. The Impact of Utilitarian and Hedonic Value on Online Shopping Behavior.

http://www.asmaindia.in/pdf/press/29-The-Impact-of-Utilitarian-and-Hedonic-Value-on-Online-Shopping-Behavior.pdf

3. THE INFLUENCE OF UTILITARIAN VALUE, HEDONIC VALUE, SOCIAL VALUE, AND PERCEIVED RISK ON CUSTOMER SATISFACTION:SURVEY OF E-COMMERCE CUSTOMERS IN INDONESIA

https://journals.vgtu.lt/index.php/BTP/article/view/12143

5Hedonic and Utilitarian Aspects of Consumer Behavior: an Attitudinal <a href="https://www.acrwebsite.org/volumes/6348/volumes/v12/NA-">https://www.acrwebsite.org/volumes/6348/volumes/v12/NA-</a>

6Hedonic and Utilitarian Values Behind Engagement of Online Consumers

https://www.igi-global.com/gateway/article/257192#pnlRecommendationForm

- 7. https://www.geeksforgeeks.org
- 8. https://en.wikipedia.org/wiki/Wiki

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- 2. Hardware Requirements.
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# INTRODUCTION

#### 1. What is Customer Retention?

**Customer retention** refers to a company's ability to turn customers into repeat buyers and prevent them from switching to a competitor. It indicates whether your product and the quality of your service please your existing customers. It's also the lifeblood of most subscription-based companies and service providers.

Customer retention strategies are the processes and initiatives businesses put in place to build customer loyalty and improve customer lifetime value.

# 2. Why is customer retention important?

Keeping your current customers happy is generally more cost-effective than acquiring first-time customers. According to the Harvard Business Review, acquiring a new customer can be 5 to 25 times more expensive than holding on to an existing one.

You don't need to spend big on marketing, advertising, or sales outreach. It is easier to turn existing customers into repeating ones, since they already trust your brand from previous purchases. New customers, however, often require more convincing when it comes to that initial sale.

Customer loyalty won't just give you repeat business. Loyal customers are more likely to give free recommendations to their colleagues, friends, and family. Creating that cycle of retained customers and buzz marketing is one way your company can cultivate customer loyalty for long-term success.

#### 3. Customer retention benefits:

- Cost savings: Customer retention is generally more costeffective than acquiring first-time customers.
- Positive word of mouth marketing: Loyal customers are more likely to tell their friends and family about your brand.
- A better bottom line: Increasing retention rates by just 5 percent can increase revenue by 25 percent to 95 percent.

#### 4. E-Commerce websites and Customer Retention:

For an e-commerce store, the customer retention rate is directly related to how much your customers trust you and how much they relish the experience of spending time on your website/app.

**Trust** is built by being honest and upfront about the product and service. Questions like how you guarantee quality, what your process of customer service is, what the options for customer grievance redressal are and the like need to be answered upfront and put into practice. This builds trust and subsequently word of mouth.

Coming to the experience that you create for your customers, aesthetics, ease of use and clarity are the three most important parameters.

**Aesthetics** - A good looking vibrant user interface that functions smoothly without bugs is an absolute must. Do make sure it functions equally on all kinds of interfaces like laptop, tablet, mobile etc.

**Ease of use** - Customers like to come back to e-commerce sites where they could view the product, compare options, read reviews and complete their transaction with minimum fuss and in the minimum time.

Clarity - People love clarity when buying online. Clarity in terms of - how is my product going to be packed? How many days would it take for delivery? Is there a tracking mechanism? I may know there is a return policy if am not satisfied with it, but how does the return actually work? All these and more questions provide clarity to the buyer and enhance his experience manifold.

Other than these, there can also be loyalty programs, tie-ups with other complimentary e-commerce providers and cobranded events with physical stores that will boost customer acquisition and retention. Tying up with a more known brand rubs off some of the reliability and trust onto us. That leads to further customer retention over a period of time.

#### 5. Review of Literature:

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.

## **ANALYTICS OF THE BUSINESS PROBLEM**

# 1. What is Analytical problem framing?

Analytic problem framing involves translating the business problem into terms that can be addressed analytically via data and modelling. It's at this stage that you work backwards From the results / outputs you want to the data/inputs you're going to need, where you identify potential drivers and hypotheses to test, and where you nail down your assumptions. Analytic problem framing is the antithesis of merely working with the ready-to-hand data and seeing what comes of it, hoping for something insightful. Typically, the process moves on from here to data collection, cleansing and transformation, Methodology selection and model building, never to return. But if you're willing to borrow and use a concept from complex adaptive systems – maps and models – you can make repeat use of this stage to improve your overall outcome.

# 2. Hardware Requirements

A mid level computer that runs on Intel i3/i5/i7 or A10/A11/M1 or ryzen 3/5 or any other equivalent chipset and a suitable processor.

# 3. Software Requirements

Windows / Linux / Mac OS

## 4. Tools, Libraries and Packages used

- Tool: 1.Anaconda Navigator
  - 2. Jupyter Notebook

# Libraries and Packages:

- 1. Numpy
- 2. Pandas
- 3. Matplotlib
- 4. Seaborn

# 5. Data Pre-Processing

For understanding the factors influencing the customer retention, we should consider 4 important variables.

These 4 variables manipulate the 'customer satisfaction', which in turn makes the customer to stay.

#### These variables are:

- 1. Hedonic Value.
- 2. Utilitarian Value.
- 3. Precieved Risk.
- 4. Customer Experience.

By Analysing on the basis of these variables, we can find the basic factors influencing the 'customer satisfaction'. Thus, by achieving the 'customer satisfaction' we can make the customer to stay and make them buy more products.

So we will do the following Analysis in 5 parts. We will use different parts of the given data-set to help us find the customer retention factors.

By following these processes we can achieve a more efficient data-set. We will use **Python** through **Jupyter notebook** for data processing.

Also we will use Libraries such as **Pandas**, **Numpy for Analysis** and **Matplotlib**, **seaborn for visualization**.

# 6. Exploratory Data-Analysis

```
#importing libraries
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sn
import warnings
warnings.filterwarnings("ignore")

#Loading the data-set

#checking the shape of the data-set
df.shape

(269, 71)
```

## 1.checking the null values, data type and title of the columns:

Title: 1Gender of respondent

Col dtype: object

NaN val: 0

Title: 2 How old are you? Col dtype: object

NaN val: 0

Title: 3 Which city do you shop online from?

Col dtype: object

NaN val: 0

Title: 4 What is the Pin Code of where you shop online from?

Col dtype: int64 NaN val: 0

Title: 5 Since How Long You are Shopping Online?

Col dtype: object

NaN val: 0

Title: 6 How many times you have made an online purchase in the past 1 year?

Col dtype: object

NaN val: 0

Title: 7 How do you access the internet while shopping on-line?

Col dtype: object

NaN val: 0

Title: 8 Which device do you use to access the online shopping?

Col dtype: object

NaN val: 0

Title: 9 What is the screen size of your mobile device?

Col dtype: object

NaN val: 0

Title: 10 What is the operating system (OS) of your device?

Col dtype : object

NaN val: 0

Title: 11 What browser do you run on your device to access the website?

Col dtype: object

NaN val: 0

Title: 12 Which channel did you follow to arrive at your favorite online store for

the first time?
Col dtype : object

NaN val: 0

Title: 13 After first visit, how do you reach the online retail store?

Col dtype: object

NaN val: 0

Title: 14 How much time do you explore the e-retail store before making a

purchase decision? Col dtype : object

NaN val: 0

Title: 15 What is your preferred payment Option?

Col dtype: object

NaN val: 0

Title: 16 How frequently do you abandon (selecting an items and leaving without

making payment) your shopping cart?

Col dtype: object

NaN val: 0

Title: 17 Why did you abandon the "Bag", "Shopping Cart"?

Col dtype: object

NaN val: 0

Title: 18 The content on the website must be easy to read and understand

Col dtype : object

NaN val: 0

Title: 19 Information on similar product to the one highlighted is important for

product comparison Col dtype : object

NaN val: 0

Title: 20 Complete information on listed seller and product being offered is

important for purchase decision.

Col dtype: object

NaN val: 0

Title: 21 All relevant information on listed products must be stated clearly

Col dtype : object

NaN val: 0

Title: 22 Ease of navigation in website

Col dtype: object

NaN val: 0

Title: 23 Loading and processing speed

Col dtype : object

NaN val: 0

Title: 24 User friendly Interface of the website

Col dtype : object

NaN val: 0

Title: 25 Convenient Payment methods

Col dtype: object

NaN val: 0

Title: 26 Trust that the online retail store will fulfill its part of the transaction at the

stipulated time Col dtype : object

NaN val: 0

Title: 27 Empathy (readiness to assist with queries) towards the customers

Col dtype: object

NaN val: 0

Title: 28 Being able to guarantee the privacy of the customer

Col dtype: object

NaN val: 0

Title: 29 Responsiveness, availability of several communication channels (email,

online rep, twitter, phone etc.)

Col dtype: object

NaN val: 0

Title: 30 Online shopping gives monetary benefit and discounts

Col dtype: object

NaN val: 0

Title: 31 Enjoyment is derived from shopping online

Col dtype: object

NaN val: 0

Title: 32 Shopping online is convenient and flexible

Col dtype: object

NaN val: 0

Title: 33 Return and replacement policy of the e-tailer is important for purchase

decision

Col dtype : object

NaN val: 0

Title: 34 Gaining access to loyalty programs is a benefit of shopping online

Col dtype: object

NaN val: 0

Title: 35 Displaying quality Information on the website improves satisfaction of

customers

Col dtype: object

NaN val: 0

Title: 36 User derive satisfaction while shopping on a good quality website or

application

Col dtype: object

NaN val: 0

Title: 37 Net Benefit derived from shopping online can lead to users satisfaction

Col dtype: object

NaN val: 0

Title: 38 User satisfaction cannot exist without trust

Col dtype: object

NaN val: 0

Title: 39 Offering a wide variety of listed product in several category

Col dtype: object

NaN val: 0

Title: 40 Provision of complete and relevant product information

Col dtype: object

NaN val: 0

Title: 41 Monetary savings

Col dtype: object

NaN val: 0

Title: 42 The Convenience of patronizing the online retailer

Col dtype: object

NaN val: 0

Title: 43 Shopping on the website gives you the sense of adventure

Col dtype: object

NaN val: 0

Title: 44 Shopping on your preferred e-tailer enhances your social status

Col dtype: object

NaN val: 0

Title: 45 You feel gratification shopping on your favorite e-tailer

Col dtype: object

NaN val: 0

Title: 46 Shopping on the website helps you fulfill certain roles

Col dtype: object

NaN val: 0

Title: 47 Getting value for money spent

Col dtype: object

NaN val: 0

Title: From the following, tick any (or all) of the online retailers you have

shopped from; Col dtype: object

NaN val: 0

Title: Easy to use website or application

Col dtype: object

NaN val: 0

Title: Visual appealing web-page layout

Col dtype: object

NaN val: 0

Title: Wild variety of product on offer

Col dtype: object

NaN val: 0

Title: Complete, relevant description information of products

Col dtype: object

NaN val: 0

Title: Fast loading website speed of website and application

Col dtype: object

NaN val: 0

Title: Reliability of the website or application

Col dtype: object

NaN val: 0

Title: Quickness to complete purchase

Col dtype: object

NaN val: 0

Title: Availability of several payment options

Col dtype: object

NaN val: 0

Title: Speedy order delivery

Col dtype: object

NaN val: 0

Title: Privacy of customers' information

Col dtype: object

NaN val: 0

Title: Security of customer financial information

Col dtype: object

NaN val: 0

Title: Perceived Trustworthiness

Col dtype: object

NaN val: 0

Title: Presence of online assistance through multi-channel

Col dtype: object

NaN val: 0

Title: Longer time to get logged in (promotion, sales period)

Col dtype: object

NaN val: 0

Title: Longer time in displaying graphics and photos (promotion, sales period)

Col dtype: object

NaN val: 0

Title: Late declaration of price (promotion, sales period)

Col dtype: object

NaN val: 0

Title: Longer page loading time (promotion, sales period)

Col dtype: object

NaN val: 0

Title: Limited mode of payment on most products (promotion, sales period)

Col dtype: object

NaN val: 0

Title: Longer delivery period

Col dtype: object

NaN val: 0

Title: Change in website/Application design

Col dtype: object

NaN val: 0

Title: Frequent disruption when moving from one page to another

Col dtype: object

NaN val: 0

Title: Website is as efficient as before

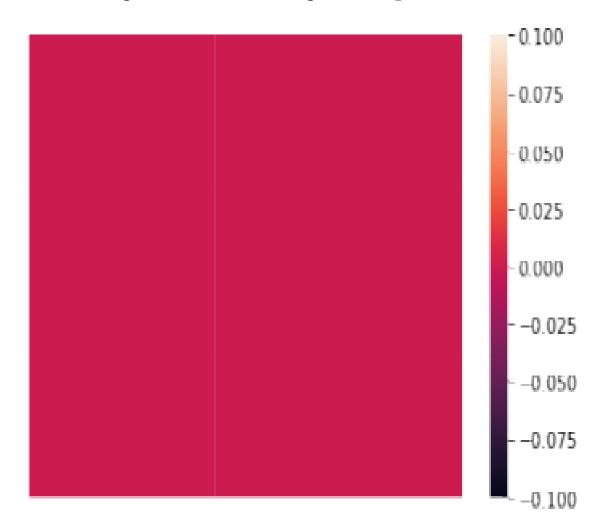
Col dtype: object

NaN val: 0

Title: Which of the Indian online retailer would you recommend to a friend?

Col dtype: object

# 2. visualising the null values using Heat-Map:



# 3. Observation about the Data-set:

- The Data-set seems to have 271 rows and 71 columns.
- The Data-set does not have any Null values.
- All the data's present in the Data-set seems to be Object type.

# 4. We will divide the given data-set into 5 parts for the EDA:

- 1.Part-1 will be information about the cutomer.
- 2.Part-2 will be Utilitarian Value.
- 3.Part-3 will be Hedonic Value.

- 4.Part-4 will be Precieved Risk.
- 5.Part-5 will be Customer Experience.

For this we will divide the given Data-set into 5 parts.

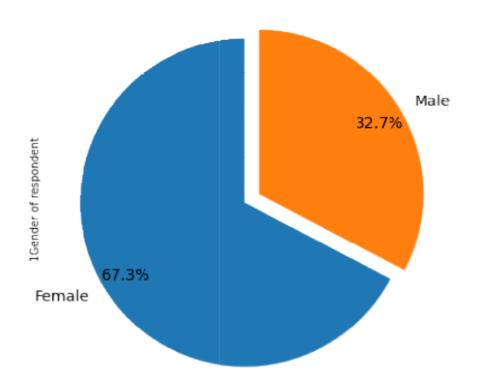
# PART-1 CUSTOMER INFORMATION

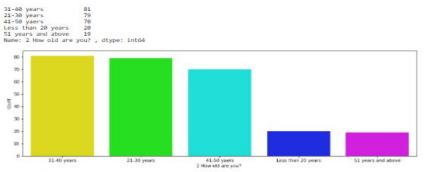
1. Visualising the Gender of respondent

Female 181

Male 88

Name: 1Gender of respondent

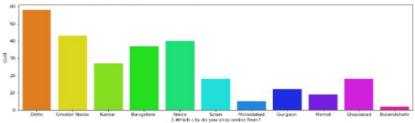




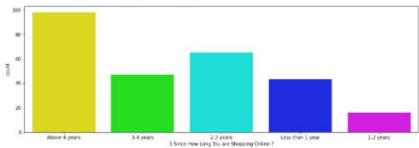
......

Delhi	58
Greater Noida	43
Noida	49
Bangalore	37
Karnal	. 27
Ghaziabad	18
Solan	18
Gurgaon	12
Merrut	9
Moradabad	5
Bulandshahr	2
Name: 3 Which	city o

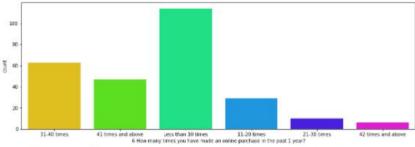
do you shop online from?, dtype: int64



Above 4 years 98
2-3 years 65
3-4 years 47
Less than 1 year 43
1-2 years 16
Name: 5 Since How Long You are Shopping Online ?, dtype: int64

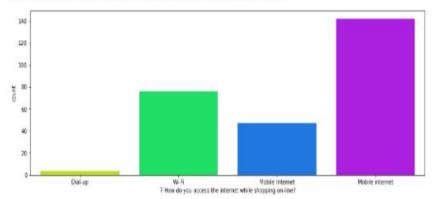


```
Less than 10 times 114
31-40 times 63
41 times and above 47
11-20 times 29
21-30 times 10
42 times and above 6
Name: 6 How many times you have made an online purchase in the past 1 year?, dtype: int64
```

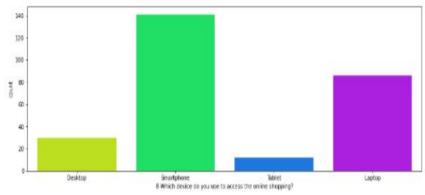


Mobile internet 142 Wi-Fi 76 Mobile Internet 47 Dial-up 4

Name: 7 How do you access the internet while shopping on-line?, dtype: int64



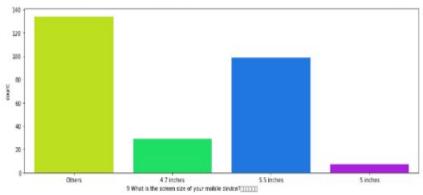
Tablet 12 Name: 8 Which device do you use to access the online shopping?, dtype: int64



Others 134 5.5 inches 99 4.7 inches 29 5 inches 7

Name: 9 What is the screen size of your mobile device?\t\t\t\t\t\t

, dtype: int64

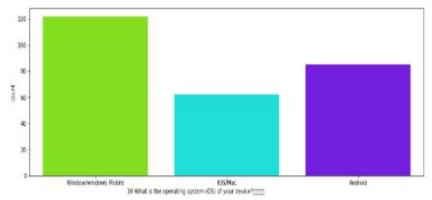


.....

Window/windows Mobile 122 Android 85 IOS/Mac 62

Name: 10 What is the operating system (OS) of your device?\t\t\t

, dtype: int64

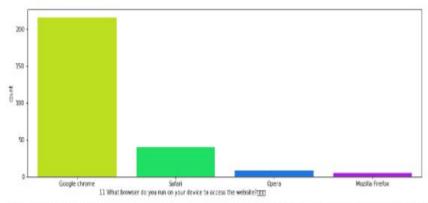


......

Google chrome 216 Safari 40 Opera 8 Mozilla Firefox 5

Name: 11 What browser do you run on your device to access the website?\t\t

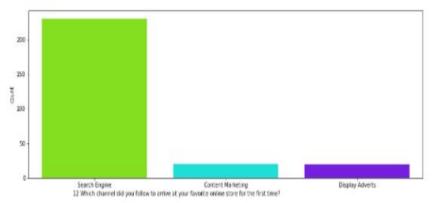
, dtype: int64



Search Engine 230 Content Marketing 20 Display Adverts 19

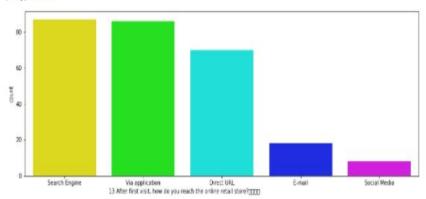
Display Adverts 19
Name: 12 Which channel did you follow to arrive at your favorite online store for the first time?

, dtype: int64



Social Media 8
Name: 13 After first visit, how do you reach the online retail store?\t\t\t

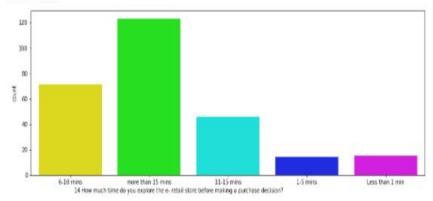
, dtype: int64



more than 15 mins 123 6-10 mins 71 11-15 mins 46 Less than 1 min 15 1-5 mins 14

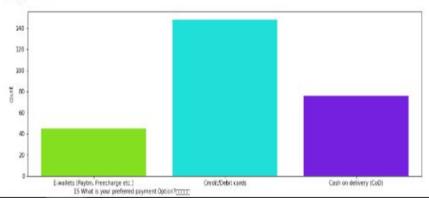
Name: 14 How much time do you explore the e- retail store before making a purchase decision?

, dtype: int64



Credit/Debit cards 148
Cash on delivery (CoD) 76
E-wallets (Paytm, Freecharge etc.) 45
Name: 15 What is your preferred payment Option?\t\t\t\t

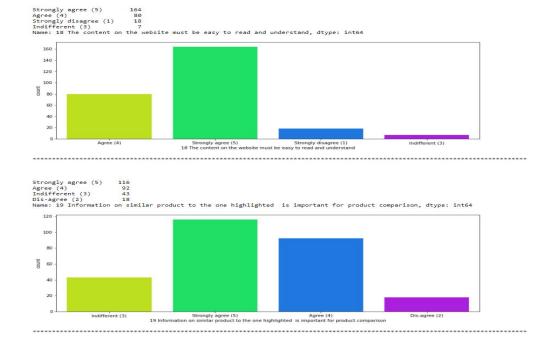
, dtype: int64



#### **OBSERVATION ON CUSTOMER INFO:**

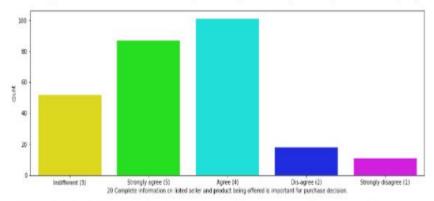
- 1. Out of the entire participant around 67.3 % (181 members) are women and 32.7 % (88 members) are men.
- 2. 80% (230 members) of the total participants are between the age group of 21-50 years, in which 21-30 years are 79 members, 31-40 years are 81 members and 41-50 years are 70 members.
- 3. Participants from Delhi, Noida, Greater Noida and Bangalore seem to be shopping in higher range when considered to other cities included for the survey. This may be due to the fact that many companies and colleges are around this area.
- 4. Around 65% of the total participants are shopping online for more than 3 years.
- 5. Major part of the customers seems to be shopping less than 10 times a year.
- 6. Most of the customers seem to be using Smart Phone and Mobile Internet for shopping. This means the E-commerce website should be compatible in all kinds of smart phone browsers to attract a lot more customers.
- 7. Many used search engine to find their favorite online store, which means the E-commerce website should be search engine optimized on all times.
- 8. Also after the search engine, E-commerce application seems to be the second favorite mode of logging in to the website. This means the application should be server and software supported at all times.
- 9. Most of the participants seem to be spending an average of more than 15mins in the website for shopping.
- 10. Most participants desire to pay via Credit/ Debit cards while shopping online.

#### **PART-2: UTILITARIAN VALUE**



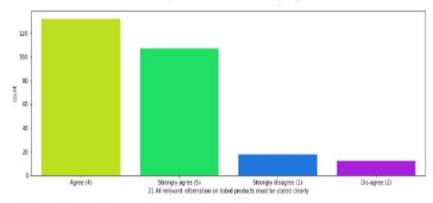
Agree (4) Strongly agree (5) Indifferent (3) 101 87 52 18

Dis-agree (2) 18
Strongly disagree (1) 11
Name: 20 Complete information on listed seller and product being offered is important for purchase decision., dtype: int64

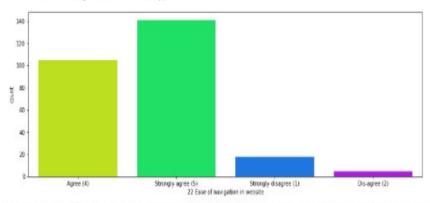


Agree (4) Strongly agree (5) Strongly disagree (1) Dis-agree (2) 132 107 18 12

Name: 21 All relevant information on listed products must be stated clearly, dtype: int64

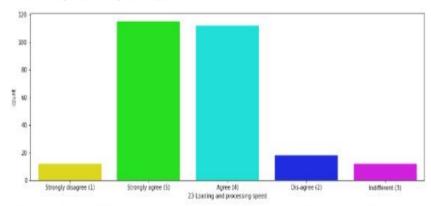


Strongly agree (5) 141 Agree (4) 105 Strongly disagree (1) 18
Dis-agree (2) 5
Name: 22 Ease of navigation in website, dtype: int64



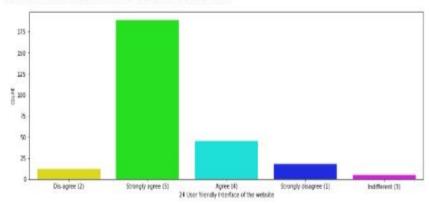
Strongly agree (5) Agree (4) 112 Dis-agree (2) 18 Strongly disagree (1) Indifferent (3) 12 12

Name: 23 Loading and processing speed, dtype: int64

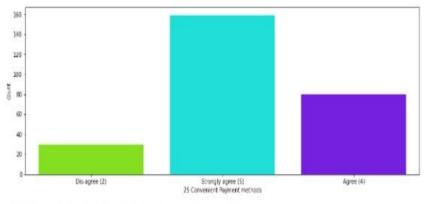


Strongly agree (5) Agree (4) 189 45 Strongly disagree (1) 18

Dis-agree (2) 12 Indifferent (3) 5 Name: 24 User friendly Interface of the website, dtype: int64

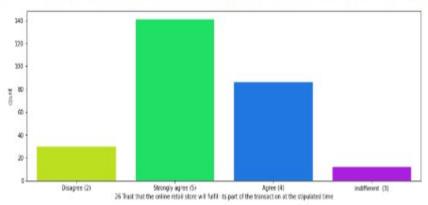


Strongly agree (5) 159
Agree (4) 80
Dis-agree (2) 30
Name: 25 Convenient Payment methods, dtype: int64



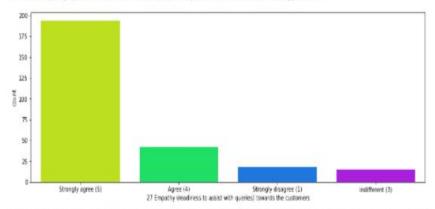
Strongly agree (5) 141 Agree (4) 86 Disagree (2) 30 Indifferent (3) 12

Name: 26 Trust that the online retail store will fulfill its part of the transaction at the stipulated time, dtype: int64



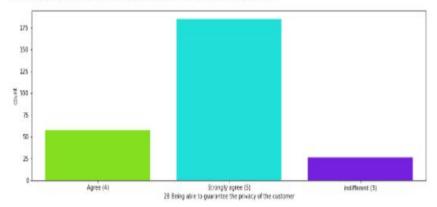
Strongly agree (5) 194 Agree (4) 42 Strongly disagree (1) 18 Indifferent (3) 15

Name: 27 Empathy (readiness to assist with queries) towards the customers, dtype: int64



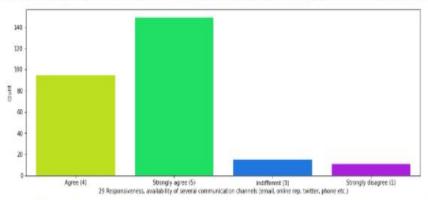
Strongly agree (5) 185 Agree (4) 58 indifferent (3) 26

Name: 28 Being able to guarantee the privacy of the customer, dtype: int64



Strongly agree (5) 149 Agree (4) 94 indifferent (3) 15 Strongly disagree (1) 11

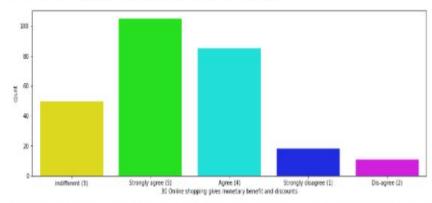
Strongly disagree (1) 11
Name: 29 Responsiveness, availability of several communication channels (email, online rep, twitter, phone etc.), dtype: int64



......

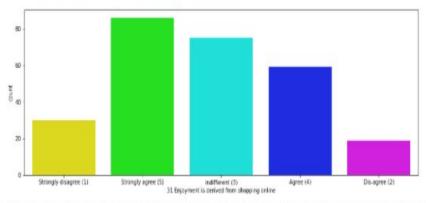
Strongly agree (5) 185
Agree (4) 85
indifferent (3) 59
Strongly disagree (1) 18
Dis-agree (2) 11

Dis-agree (2) 11 Name: 30 Online shopping gives monetary benefit and discounts, dtype: int64



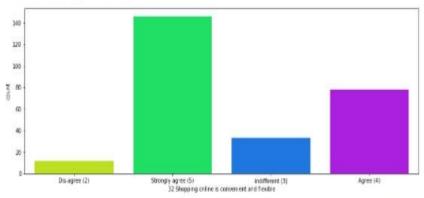
Strongly agree (5) 86 indifferent (3) 75 Agree (4) 59 Strongly disagree (1) 30 Dis-agree (2) 19

Name: 31 Enjoyment is derived from shopping online, dtype: int64



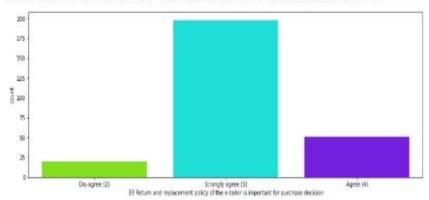
Strongly agree (5) 146 Agree (4) 78 Indifferent (3) 33 Dis-agree (2) 12

Dis-agree (2) 12 Name: 32 Shopping online is convenient and flexible, dtype: int64



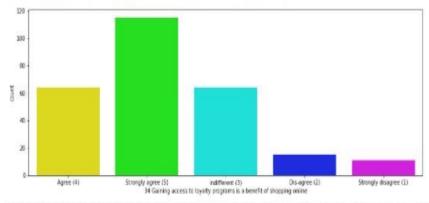
Strongly agree (5) 198 Agree (4) 51 Dis-agree (2) 20

Agree (4)
Dis-agree (2)
Name: 33 Return and replacement policy of the e-tailer is important for purchase decision, dtype: int64



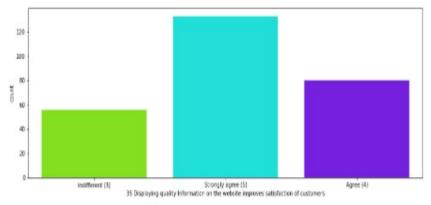
Strongly agree (5) 115 indifferent (3) 64 Agree (4) 64 Dis-agree (2) 15 Strongly disagree (1) 11

Agree (47)
Dis-agree (2)
Strongly disagree (1)
Name: 34 Gaining access to loyalty programs is a benefit of shopping online, dtype: int64



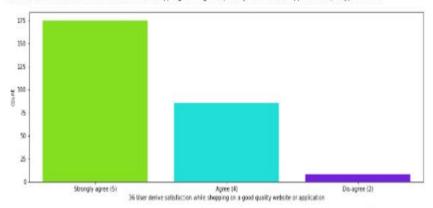
Strongly agree (5) Agree (4) indifferent (3) 133 88 56

Name: 35 Displaying quality Information on the website improves satisfaction of customers, dtype: int64

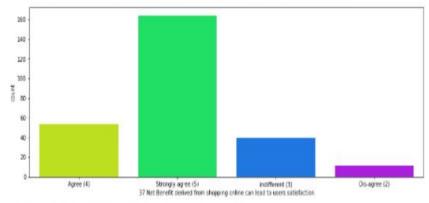


Strongly agree (5) Agree (4) 175 86

Dis-agree (2) 8
Name: 36 User derive satisfaction while shopping on a good quality website or application, dtype: int64

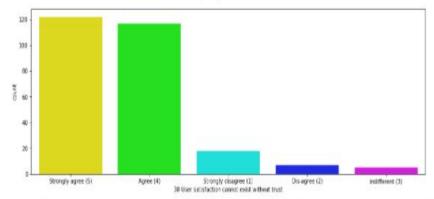


Strongly agree (5) 164
Agree (4) 54
Indifferent (3) 40
Dis-agree (2) 11
Name: 37 Net Benefit derived from shopping online can lead to users satisfaction, dtype: int64



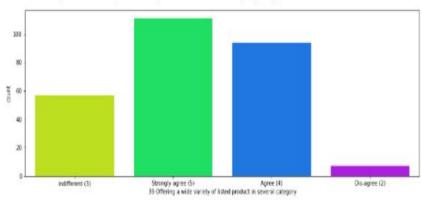
```
122
117
Strongly agree (5)
Agree (4)
Strongly disagree (1)
                                18
```

Dis-agree (2) 7
indifferent (3) 5
Name: 38 User satisfaction cannot exist without trust, dtype: int64



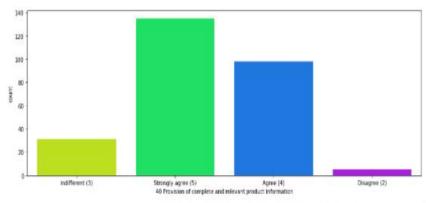
Strongly agree (5)

Agree (4) 94
indifferent (3) 57
Dis-agree (2) 7
Name: 39 Offering a wide variety of listed product in several category, dtype: int64



Strongly agree (5) Agree (4) indifferent (3) 135 98 31 Disagree (2)

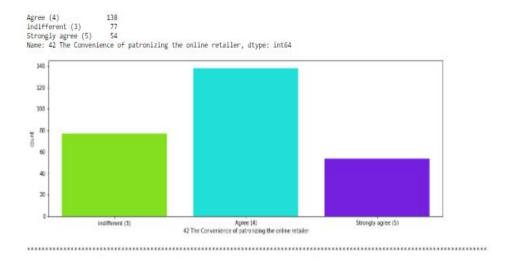
Name: 40 Provision of complete and relevant product information, dtype: int64



## **OBSERVATION ON UTILITARIAN VALUES:**

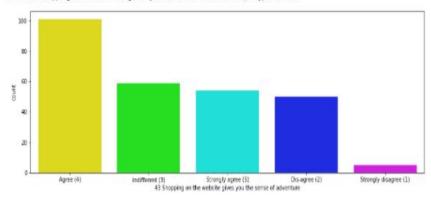
- 1. Most of the participants strongly agree that the content on the website must be easy to read and understand.
- 2. Around 80% of the total customer strongly agrees that the information on similar product to the one highlighted is important for product comparison.
- 3. Most of the participants agree with the fact that provision of complete information on listed seller and product being offered is important for purchase decision.
- 4. Most of the customers expect that all relevant information on listed products must be stated clearly.
- 5. 90% of the customer expects a user friendly interface of the website along with ease of navigation; also they want the loading and processing speed to be less.
- 6. Most customers want many options for payment methods so that they can choose which is convenient them individually.
- 7. Most people expect the E-commerce website to have empathy towards its customers, they want to approach the in all platforms.
- 8. All the customers expect a guaranteed privacy.
- 9. Most customers choose online shopping because of the monetary benefit and discounts.
- 10. Also many enjoy the process of online shopping, when it is convenient and flexible.
- 11. Most customers strongly agree that return and replacement policy of the product is important for purchase decision.
- 12. Around 80% of the participants choose online shopping because of the wide range of category on products

**PART-3: HEDONIC VALUE** 

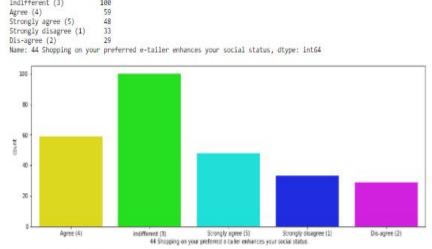


Agree (4) indifferent (3) 101 59 54 50 Strongly agree (5) Dis-agree (2)

Strongly disagree (1) 5 Name: 43 Shopping on the website gives you the sense of adventure, dtype: int64

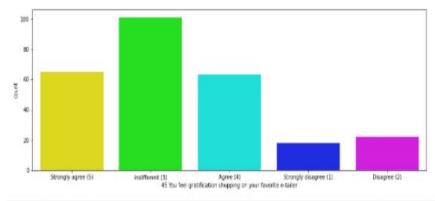


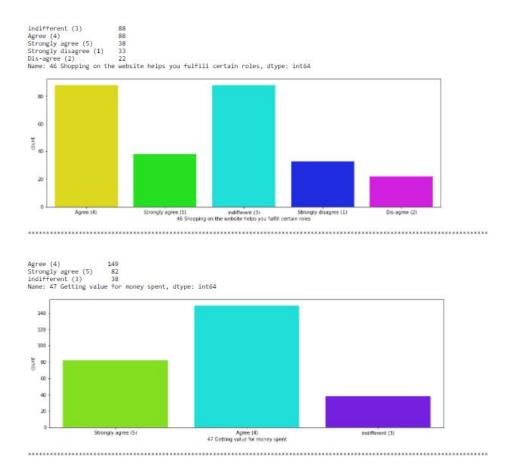
indifferent (3) 100



indifferent (3) Strongly agree (5) Agree (4) 101 65 63

Disagree (2) 22
Strongly disagree (1) 18
Name: 45 You feel gratification shopping on your favorite e-tailer, dtype: int64





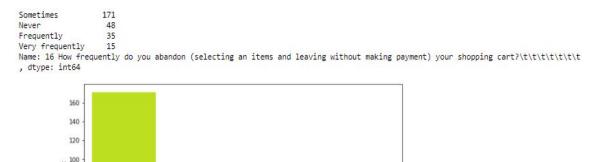
## **OBSERVATION ON HEDONIC VALUES:**

- 1. 65% participants agree that they like the convenience of patronizing the online retailer.
- 2. More than half of the customers doing online shopping accept that they like the sense of adventure while shopping online.
- 3. Many customers don't agree that shopping on their preferred website enhances their social status.
- 4. Half of the total participants say that shopping on the website helps them fulfill certain roles.
- 5. 90% of the customer agrees that they are getting value for money spent while shopping online.

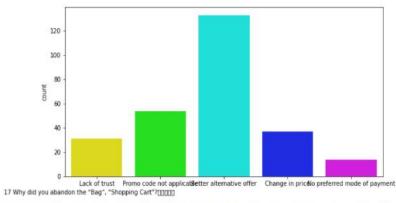
## **PART-4: PRECIEVED RISK**

80

40 20



Better alternative offer 133
Promo code not applicable 54
Change in price 37
Lack of trust 31
No preferred mode of payment 14
Name: 17 Why did you abandon the "Bag", "Shopping Cart"?\t\t\t\t

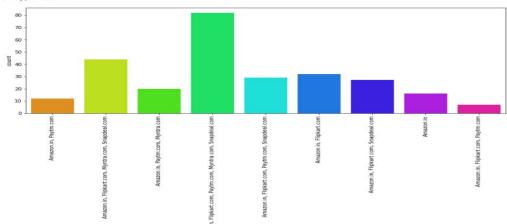


# **OBSERVATION ON PRECIEVED RISK:**

1. Many people abandon their shopping cart due to factors such as better alternative offer, promo code not applicable, change in price, lack of trust, and no preferred mode of payment.

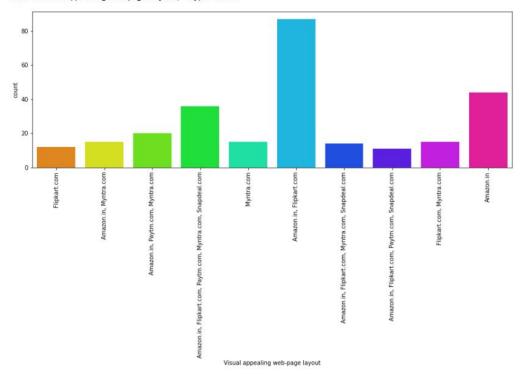
# **PART-5: CUSTOMER EXPERIENCE**

```
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com 82
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com 44
Amazon.in, Flipkart.com 32
Amazon.in, Flipkart.com, Paytm.com, Snapdeal.com 29
Amazon.in, Flipkart.com, Snapdeal.com 27
Amazon.in, Paytm.com, Myntra.com 20
Amazon.in, Paytm.com, Myntra.com 16
Amazon.in, Paytm.com, Myntra.com 12
Amazon.in, Paytm.com 15
Amazon.in, Flipkart.com, Paytm.com 17
Name: From the following, tick any (or all) of the online retailers you have shopped from; 4 type: int64
```

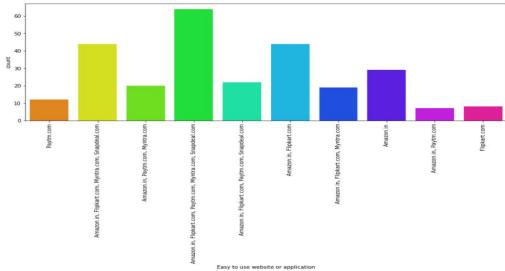


From the following, tick any (or all) of the online retailers you have shopped from;

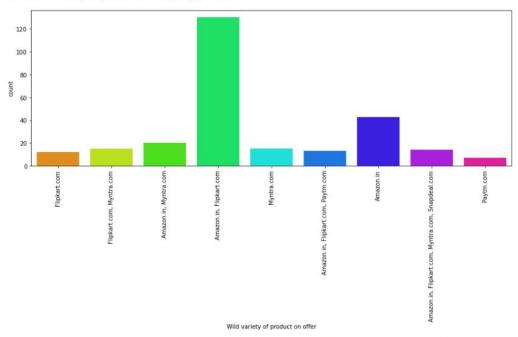
Amazon.in, Flipkart.com	87
Amazon.in	44
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com	36
Amazon.in, Paytm.com, Myntra.com	20
Flipkart.com, Myntra.com	15
Myntra.com	15
Amazon.in, Myntra.com	15
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com	14
Flipkart.com	12
Amazon.in, Flipkart.com, Paytm.com, Snapdeal.com	11
Name: Visual appealing web-page layout, dtype: int64	



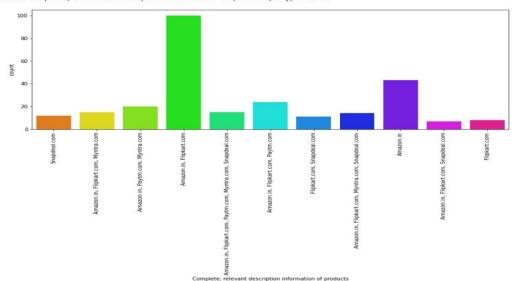




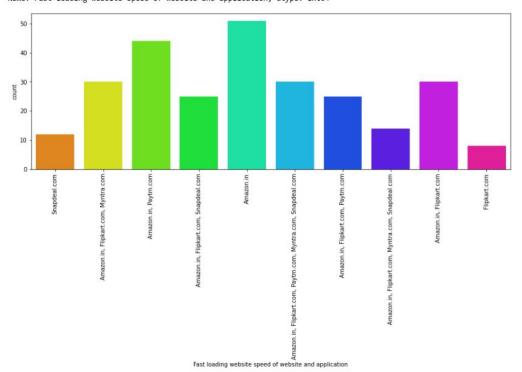
Amazon.in, Flipk	art.com	130
Amazon.in		43
Amazon.in, Myntr	a.com	20
Flipkart.com, My	ntra.com	15
Myntra.com		15
Amazon.in, Flipk	art.com, Myntra.com, Snapdeal.com	14
Amazon.in, Flipk	art.com, Paytm.com	13
Flipkart.com	STORY OF SAN EXPERIENCE OF SAN EXPERIENCE OF STORY OF SAN EXPERIENCE OF SAN EXPERIEN	12
Paytm.com		7
Name: Wild varie	ty of product on offer, dtype: into	64



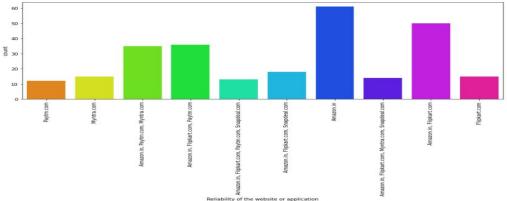
```
Amazon.in, Flipkart.com, Paytm.com, 43
Amazon.in, Flipkart.com, Paytm.com, 24
Amazon.in, Paytm.com, Myntra.com, 20
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com 15
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com 15
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com 14
Snapdeal.com 12
Flipkart.com, Snapdeal.com 11
Flipkart.com, Snapdeal.com 7
Name: Complete, relevant description information of products, dtype: int64
```



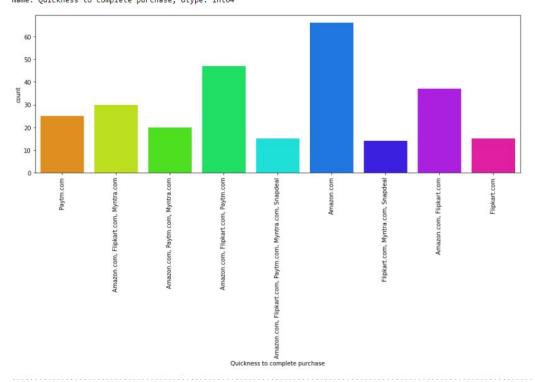
Amazon.in, Paytm.com 44
Amazon.in, Playtm.com, Myntra.com, Snapdeal.com 30
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com 30
Amazon.in, Flipkart.com, Snapdeal.com 30
Amazon.in, Flipkart.com, Snapdeal.com 25
Amazon.in, Flipkart.com, Paytm.com 25
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com 14
Snapdeal.com 12
Flipkart.com 8
Name: Fast loading website speed of website and application, dtype: int64



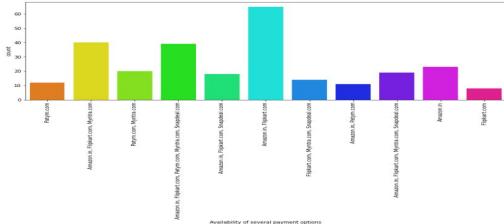




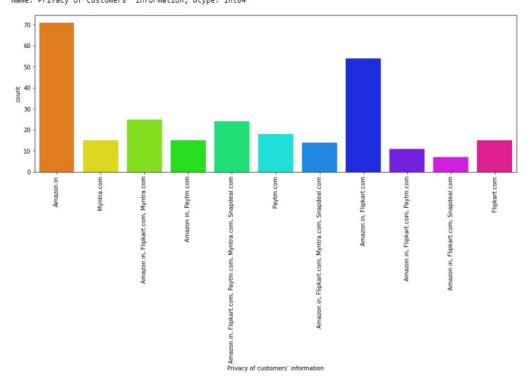
Amazon.com 66
Amazon.com, Flipkart.com, Paytm.com 47
Amazon.com, Flipkart.com 37
Amazon.com, Flipkart.com, Myntra.com 25
Amazon.com, Paytm.com, Myntra.com 26
Flipkart.com 27
Flipkart.com 15
Flipkart.com, Flipkart.com, Paytm.com, Myntra.com, Snapdeal 15
Flipkart.com, Myntra.com, Snapdeal 14
Name: Quickness to complete purchase, dtype: int64



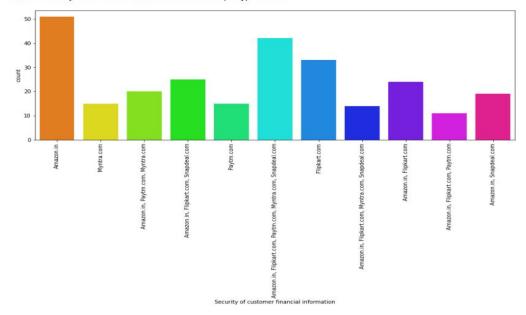




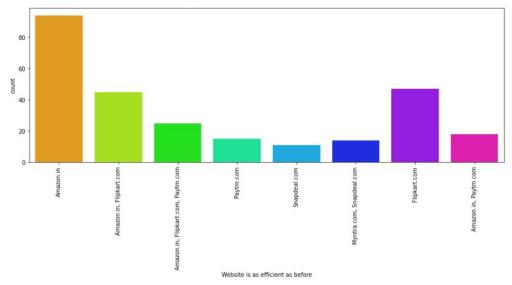
Amazon.in, Flipkart.com, Myntra.com, Myntra.com, Snapdeal.com 25
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com 25
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com 18
Flipkart.com 15
Amazon.in, Paytm.com 15
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com 14
Amazon.in, Flipkart.com, Paytm.com 11
Amazon.in, Flipkart.com, Snapdeal.com 17
Name: Privacy of customers' information, dtype: int64

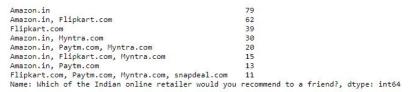


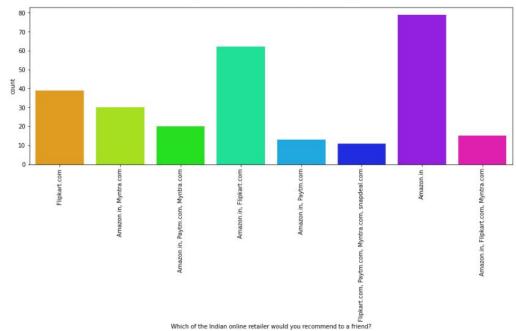
```
Amazon.in
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com
42
Flipkart.com
33
Amazon.in, Flipkart.com, Snapdeal.com
25
Amazon.in, Flipkart.com
26
Amazon.in, Paytm.com, Myntra.com
27
Amazon.in, Snapdeal.com
28
Amazon.in, Snapdeal.com
29
Amazon.in, Snapdeal.com
29
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com
20
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com
21
Amazon.in, Flipkart.com, Paytm.com
21
Name: Security of customer financial information, dtype: int64
```



Amazon.in 94
Flipkart.com 47
Amazon.in, Flipkart.com 25
Amazon.in, Flipkart.com, Paytm.com 25
Amazon.in, Paytm.com 18
Paytm.com 15
Myntra.com, Snapdeal.com 14
Snapdeal.com 11
Name: Website is as efficient as before, dtype: int64







# **OBSERVATIONS ON CUSTOMER EXPERIENCE:**

- 1. Most of the customers shopping on line have shopped majorly from the following websites, Amazon. In, Flipkart.com, Snapdeal.com, paytm.com.
- 2. Amazon, flipkart, snapdeal, myntra seems to have easy to use website or application.
- 3. Amazon.in and Flipkart.com has a visually appealing web-page layout.
- 4. Amazon.in and Flipkart.com has a wild variety of products on offers.
- 5. Amazon.in and Flipkart.com has complete and relevant description information of products compared to all other websites.
- 6. Amazon. In, Flipkart.com, Snapdeal.com, paytm.com, myntra.com has fast loading websites.
- 7. Amazon.in and Flipkart.com has the reliability of the customer.
- 8. Amazon.in, Flipkart.com has quickness towards completing the purchase.
- 9. Amazon. In, Flipkart.com, Snapdeal.com has availability of several payment options.
- 10. Amazon.in and Flipkart.com has speedy order delivery.
- 11. According to customers the privacy and security of customer financial information is maintained by Amazon.in and Flipkart.com.
- 12. Amazon. In, Flipkart.com, Snapdeal.com has a Perceived Trustworthiness.
- 13. Presence of online assistance through multi-channel is mostly provided by Amazon.In, Flipkart.com, and Snapdeal.com.

- 14. Longer time to get logged in (promotion, sales period): Amazon.in, Flipkart.com, Paytm.com.
- 15. Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com takes longer time in displaying graphics and photos.
- 16. Myntra.com, Paytm.com, snapdeal.com has a practice of late declaration of prices.
- 17. Myntra.com, Paytm.com, snapdeal.com, Flipkart.com has a longer page loading time (promotion, sales period).
- 18. Amazon.in and snapdeal.com has limited mode of payment on most products.
- 19. Paytm.com, snapdeal.com, Flipkart.com has a longer delivery period.
- 20. Amazon.in, Paytm.com has regular change in website/application design.
- 21. Amazon.in, Myntra.com, Snapdeal.com, Paytm.com has frequent disruption when moving from one page to another.
- 22. Amazon.in and Flipkart.com Website are as efficient as before.
- 23. Amazon.in and Flipkart.com seems to be the most recommended Indian online retailer website.

# CONCLUSION

The purpose of this study is to understand the influence of utilitarian values, hedonic values, customer experience and perceived risk on Ecommerce customer satisfaction in India.

The analysis shows that the Utilitarian Value significantly influences Customer Satisfaction, meaning that the level of Utilitarian Value of ecommerce customers will affect the level of Customer Satisfaction. In other words, the better (higher) Utilitarian Value given by e-commerce products will lead to satisfaction with customers. Hedonic Value significantly influences Customer Satisfaction, meaning that the high and low Hedonic Value of e-commerce customers will affect the level of Customer Satisfaction. In other words, the higher the Hedonic Value given by e-commerce products will lead to the satisfaction of e-commerce customers.

The following factors should be considered by the E-commerce websites to improve the customer satisfaction:

- 1. Utilitarian Value
- Product offerings
- Product information
- Monetary savings

### •Convenience

## 2. <u>Hedonic Value</u>

- •Adventure Shopping
- Social Shopping
- •Gratification Shopping
- •Idea Shopping
- •Role Shopping
- •Value Shopping

# 3. Social Value

- •Feel acceptable
- •Good impression
- •I am perceived
- •Social approval

# 4. Perceived Risk

- •Financial Risk
- •Functional Risk
- •Physical Risk
- •Psychological Risk
- •Social Risk
- •Temporal Risk

# 5. <u>Customer Satisfaction</u>

- •Purchasing Experience
- Site Selection

On the basis of these factors we could see that,

- 1. Amazon.in
- 2. Flipkart.com

are doing great in their performance on customer satisfaction and retention.

# THANK YOU