E-RETAIL FACTORS FOR CUSTOMER ACTIVATION AND RETENTION: A CASE STUDY FROM INDIAN ECOMMERCE CUSTOMERS

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BATCH: - 16

ACKNOWLEDGMENT

I would like to thank my mentors at Data Trained, who taught me the concepts of Data Analysis, building a machine learning model, and tuning the parameters for best outcomes.

For this particular task, I referred the following websites and articles when stuck:

- https://towardsdatascience.com/a-common-mistake-to-avoid-when-encoding-ordinal-features-79e402796ab4
- https://stackoverflow.com/questions/43590489/gridsearchcv-random-forest-regressor-tuning-best-params
- ☐ https://www.codegrepper.com/codeexamples/delphi/scikit+pca+preserve+column+names+pca+pipeline
- https://stackoverflow.com/questions/22984335/recovering-features-names-of-explained-variance-ratio-in-pca-with-sklearn
 I would also like to thank my mentor in Fliprobo for providing me with the dataset and problem statement for performing this wonderful task.

INTRODUCTION

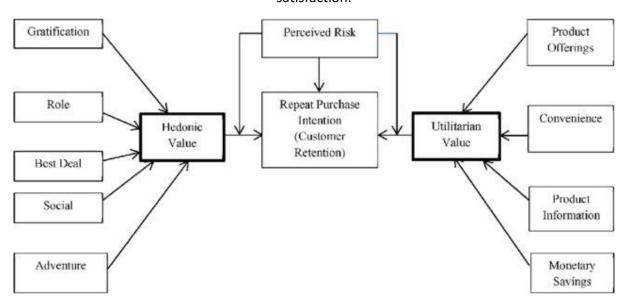
Business Problem Framing

Data Scientists have to apply their analytical skills to give findings and conclusions in detailed data analysis written in jupyter notebook

Conceptual Background of the Domain Problem

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 e-commerce 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.



Analytical Problem Framing

I will be going about this task in 2 parts:

First Part: Descriptive Statistics &

Second Part: Inferential Statistics

Descriptive statistics describes data (for example, a chart or graph) and **inferential statistics** allows us to make predictions ("inferences") from that data. With inferential statistics, we take data from samples and make generalizations about a population. For example, we might stand in a mall and ask a sample of 100 people if they like shopping at Sears. We could make a bar chart of yes or no answers (that would be descriptive statistics) or we could use our research (and inferential statistics) to reason that around 75-80% of the population (all shoppers in all malls) like shopping at Sears.1

Data Sources and their formats

There are two sheets (one is detailed) and second is encoded in the excel file. The data is in the form of a Questionnaire - probably Google Forms.

Shape – 269 Rows; 71 Columns

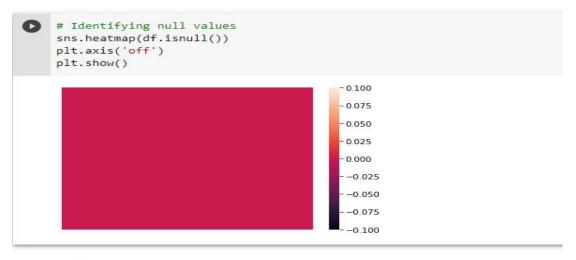
First 5 Rows:

	1Gender of respondent	How old are you?	3 Which city do you shop online from?	is the Pin Code of where you shop online from?	5 Since How Long You are Shopping Online ?	times you have made an online purchase in the	7 How do you access the internet while shopping on-line?	8 Which device do you use to access the online shopping?	9 What is the screen size of your mobile device? \t\t\t\t\t	10 What is the operating system (OS) of your device? \t\t\t\t	browser do you run on your device to access the website? \t\t\t	did you follow to arrive at your favorite online store for the first time?	visit, how do you reach the online retail store?	much time do you explore the e- retail store before making a purchase decision?	15 What is your preferred payment Option?
0	Male	31- 40 years	Delhi	110009	Above 4 years	31-40 times	Dial-up	Desktop	Others	Window/windows Mobile	Google chrome	Search Engine	Search Engine	6-10 mins	E-wallets (Paytm, Freecharge etc.)
1	Female	21- 30 years	Delhi	110030	Above 4 years	41 times and above	Wi-Fi	Smartphone	4.7 inches	IOS/Mac	Google chrome	Search Engine	Via application	more than 15 mins	Credit/Debit cards
2	Female	21- 30 years	Greater Noida	201308	3-4 years	41 times and above	Mobile Internet	Smartphone	5.5 inches	Android	Google chrome	Search Engine	Via application	11-15 mins	E-wallets (Paytm, Freecharge etc.)
3	Male	21- 30 years	Karnal	132001	3-4 years	Less than 10 times	Mobile Internet	Smartphone	5.5 inches	IOS/Mac	Safari	Search Engine	Search Engine	6-10 mins	Credit/Debit cards
4	Female	21- 30	Bangalore	530068	2-3 vears	11-20 	Wi-Fi	Smartphone	4.7 inches	IOS/Mac	Safari	Content	, Via	more than	Credit/Debit

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Paytm.com	Patym.com	Amazon.in	Amazon.in	Amazon.in	Flipkart.c	com Paytm.com	m Amazon.i	n Amazon.in	Flipkart.com	Flipkart.com	Amazon.in
nazon.com, lipkart.com, Myntra.com	Amazon.in, Flipkart.com, Myntra.com	Amazon.in, Flipkart.com	Myntra.com	Myntra.com	Myntra.c	Amazon.ii com Flipkart.con Myntra.coi	n, Flinkart cor		snapdeal.com	Snapdeal.com	Snapdeal.com S
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nazon.com, lipkart.com, Paytm.com	Amazon.in, Flipkart.com, Myntra.com	Amazon.in, Flipkart.com, Snapdeal.com		Amazon.in, Flipkart.com, Snapdeal.com	Amazor Flipkart.c Snapdeal.c	om, Myntra con	n, Snapdeal.com	Myntra.com, Snapdeal.com	Myntra.com	Paytm.com	Paytm.com
nazon.com, lipkart.com,	Amazon.in, Flipkart.com,	Amazon.in	Amazon.in,	Pavtm.com	Amazor	n.in, Amazon.ii	n, Flipkart.com	^{1,} Pavtm.com	Pavtm.com	Pavtm.com	Snapdeal.com
Perceived worthiness	Presence of online assistance through multi- channel	Longer time to get logged in (promotion, sales period)	Longer time in displaying graphics and photos (promotion, sales period)	Late declaration of price (promotion, sales period)	Longer page loading time (promotion, sales period)	Limited mode of payment on most products (promotion, sales period)	Longer delivery period	Chang website/Applica de	e in disru tion when m sign fro pa		as retailer
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Checking for Null Values in the dataset



Observation: The above heatmap shows there are no null values in the Dataset .

1. Descriptive

As there are a huge number of features, it makes sense to divide the data into these categories:

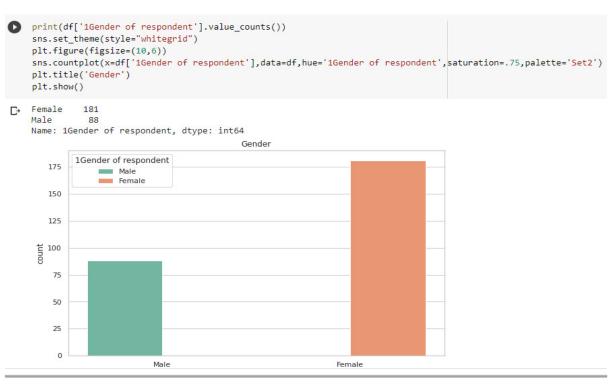
- 1. categorical_columns = This will contain demographic features and other person specific features like age, gender, browser]
- 2. rating_columns = This will contain all questions which have answers in the form of (Agree, Strongly Agree, Indifferent etc.)
- 3. ecommerce_columns = This will contain all questions which have answers in the form of (amazon, flipkart, myntra etc.)

```
[ ] # categorical_columns can be located from column index 0 to 16
    categorical_columns=df.iloc[:,:17].columns
    categorical_columns=categorical_columns.to_list()

# rating_columns can be located from column index 17 to 46
    rating_columns=df.iloc[:,17:47].columns
    rating_columns=rating_columns.to_list()

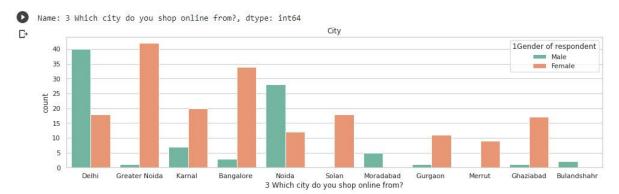
# ecommerce_columns can be located from column index 47 and above
    ecommerce_columns=df.iloc[:,47:].columns
    ecommerce_columns=ecommerce_columns.to_list()
```

Let's have a look at the overall demographics of the collected sample



```
print(df['2 How old are you? '].value_counts())
    sns.set_theme(style="whitegrid")
    plt.figure(figsize=(10,4))
    sns.countplot(x=df['2 How old are you? '], hue = df['1Gender of respondent'], data=df, saturation=.75, palette='Set2')
    plt.title('Age')
    plt.show()
21-30 years
                           79
    41-50 yaers
                           70
    Less than 20 years
                           20
    51 years and above
                           19
    Name: 2 How old are you? , dtype: int64
                                               Age
       60
                                                                  1Gender of respondent
       50
                                                                       Female
       40
     count
       30
       20
       10
                             21-30 years
                                                        Less than 20 years 51 years and above
             31-40 years
                                            41-50 yaers
                                        2 How old are you?
```

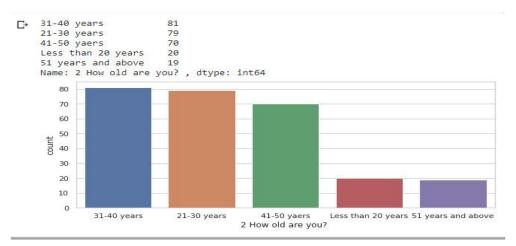
Spread Based on City



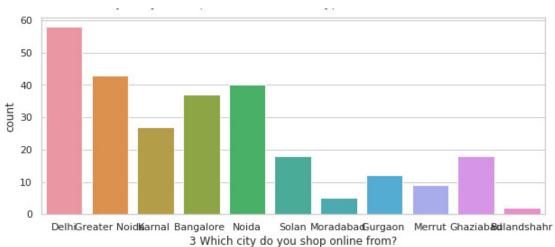
Observation: In Delhi, Noida, Moradabad and Bulandshahr; there are more male shoppers as compared to the other cities.

Univariate Analysis

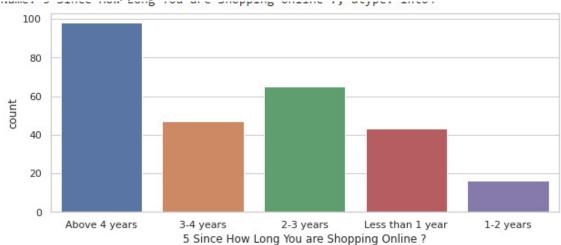
1.Age



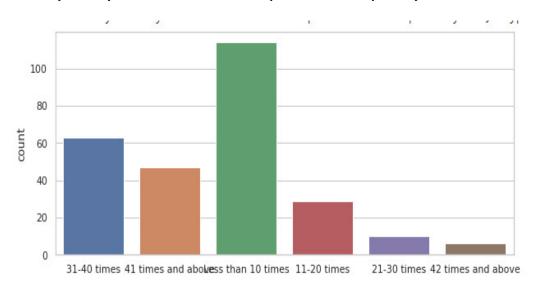
2. City



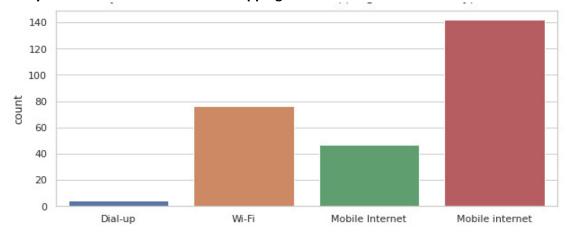
3. Time since online shopping



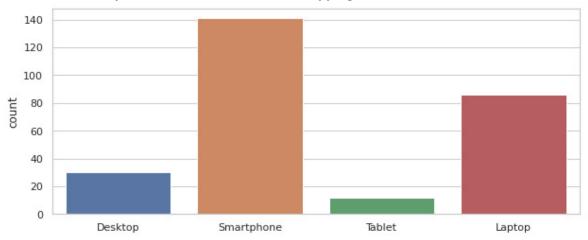
4. How many times you have made an online purchase in the past 1 year?



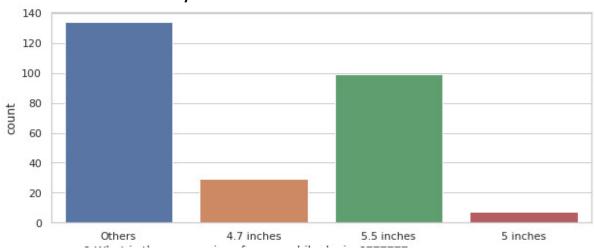
5. How do you access the internet while shopping on-line?



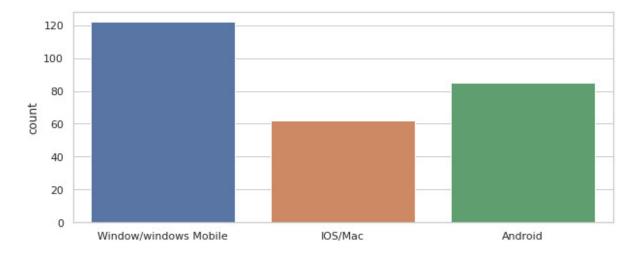
6. Which device do you use to access the online shopping?



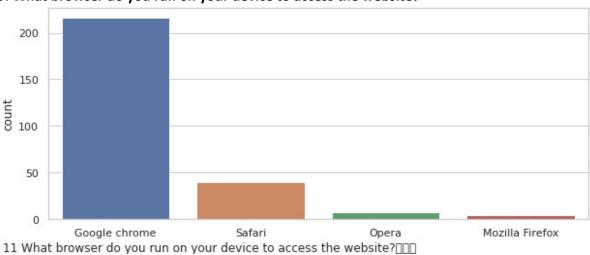
7. What is the screen size of your mobile device?



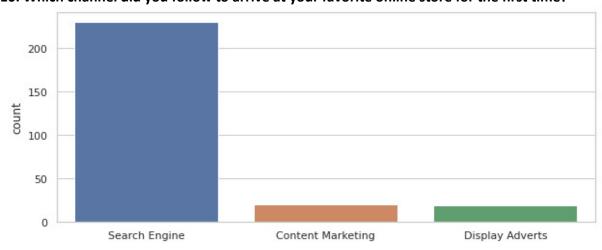
8. What is the operating system (OS) of your device?



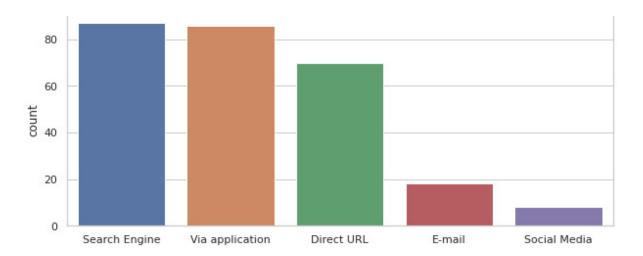
9. What browser do you run on your device to access the website?



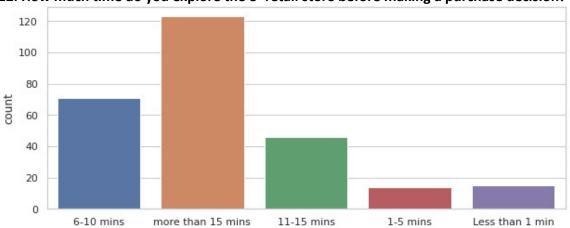
10. Which channel did you follow to arrive at your favorite online store for the first time?



11. After first visit, how do you reach the online retail store?



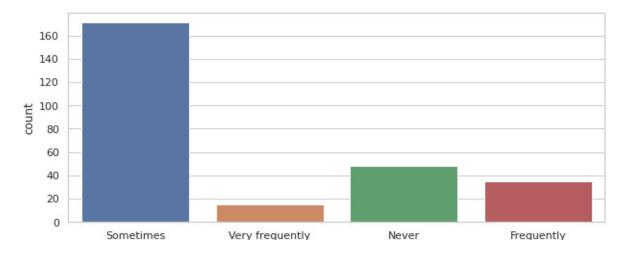
12. How much time do you explore the e- retail store before making a purchase decision?



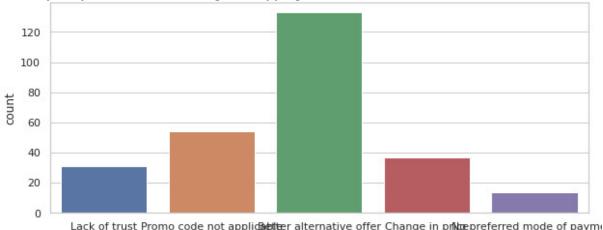
13. What is your preferred payment Option?



14. How frequently do you abandon (selecting an items and leaving without making payment) your shopping cart?



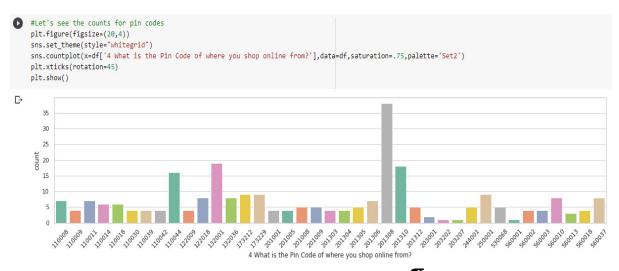
15. Why did you abandon the "Bag", "Shopping Cart"?



Some Important Conclusions Based on the initial Questions

- 1. Age: 85% of the people are within age group 20-50 years. Very small percentage of people are less than 20 or more than 50 years old.
- 2. Delhi, Greater Noida, Noida and Bangalore have the maximum participants.
- 3. Maximum number of participants have been using Online Shopping platforms for more than 4 years.
- 4. Purchases in last 1 year: Maximum People have made purchases less than 10 times. Next in line are 30-40 and 40+
- 5. Most people use Mobile internet during shopping on-line.
- 6. Very few people use desktops or tablets; while most are using Smartphones and laptops.
- 7. A large percentage of people use Google Chrome.
- 8. Search Engines are the most used channel which guide people to their favourite online store.
- 9. Most people take purchase decision after spending more than 15 minutes.
- 10. Credit/Debit cards are the most used mode of payment.
- 11. Maximum people abandon the items in cart 'sometimes' as opposed to never or frequently.
- 12. The biggest reason to abandon is 'Better alternative offer.

We'll Now have a look at how the above Features are varying based on the Location(Pin-Code)



Important Observations on the basis of Customer's perception

- 1. A large majority of people believe that content on the website must be easy to read and understand.
- 2. People agree that Information on similar product to the one highlighted is important.
- 3. 70% people believe that Complete information on listed seller and product is important for purchase decision.
- 4. 90% people believe that All relevant information on listed products must be stated clearly
- 5. For more than 90% people, ease of navigation of website, loading or processing speed as well as User friendly Interface of the website is important.
- 6. Other important parameters are Convinient Payment Methods, privacy of customers, responsiveness, availability of several Communication channels, return and replacement policy.

Satisfaction related Features

- 1. Around 20% people don't that Displaying quality Information on the website improves satisfaction of customers. The other 80% agree that it os important.
- 2. Almost all perticipants believe that User derive satisfaction while shopping on a good quality website or application.
- 3. Very high percentage of people believe that Net Benefit derived from shopping online can lead to users satisfaction.
- 4. Most People believe that User satisfaction cannot exist without trust.

Now, we'll see the company name specific parameters

Questions and their responses in frequencies (Not displaying all graphs, Displaying Frequency Counts below)

1.

```
Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com
                                                                 64
Amazon.in, Flipkart.com, Myntra.com, Snapdeal.com
                                                                 44
Amazon.in, Flipkart.com
                                                                 44
                                                                 29
Amazon.in
Amazon.in, Flipkart.com, Paytm.com, Snapdeal.com
                                                                 22
Amazon.in, Paytm.com, Myntra.com
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Amazon.in, Flipkart.com, Myntra.com
                                                                 19
Paytm.com
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Flipkart.com
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Amazon.in, Paytm.com
                                                                  7
Name: Easy to use website or application, dtype: int64
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Amazon.in	62	
Flipkart.com	31	
Amazon.in, Flipkart.com	29	
Paytm.com	25	
Paytm.com, Snapdeal.com	15	
Amazon.in, Paytm.com	13	
Myntra.com, Snapdeal.com	7	
19.		
Paytm.com	72	
Snapdeal.com	64	
Flipkart.com	44	
Amazon.in	37	
Paytm.com, Snapdeal.com	26	
Myntra.com	26	
20.		
Amazon.in	96	
Paytm.com	63	
Amazon.in, Flipkart.com	45	
Myntra.com	30	
Flipkart.com	20	
Snapdeal.com	8	
Flipkart.com, Myntra.com	7	
21.		
Amazon.in	53	
Myntra.com	52	
Snapdeal.com	49	
Paytm.com	39	
Flipkart.com	26	
Amazon.in, Flipkart.com	25	
Myntra.com, Snapdeal.com	14	
Flipkart.com, Snapdeal.com	n 11	
22.		
Amazon.in		94
Flipkart.com		47
Amazon.in, Flipkart.com		45
Amazon.in, Flipkart.com, N	Paytm.com	25
Amazon.in, Paytm.com		18
Paytm.com		15
Myntra.com, Snapdeal.com		14
Snapdeal.com		11

<u> </u>	
Amazon.in	79
Amazon.in, Flipkart.com	62
Flipkart.com	39
Amazon.in, Myntra.com	30
Amazon.in, Paytm.com, Myntra.com	20
Amazon.in, Flipkart.com, Myntra.com	15
Amazon.in, Paytm.com	13
Flipkart.com, Paytm.com, Myntra.com, snapdea	1.com 11

Observations from Multiple Options based Questions

- 1. Maximum people have shopped from these 5 companies Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com.
- 2. Most people find Easy to use website or application are Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com Also, Amazon.com and Flipkart.com are the major choices.
- 3. In terms of Visual appealing web-page layout also, Amazon.com and Flipkart.com seem to take the lead.
- 4. Talking about Wide variety of product on offer: Amazon.com and Flipkart.com are the major choices.
- 5. Complete, relevant description information of products: Once again, maximum people have chosen to go with mazon.com and Flipkart.com
- 6. Fast loading website speed of website and application: Amazon seems to take the lead in this category, although paytm and Flipkart are not far behind.
- 7. Reliability of the website or application: Amazon seems to take the lead in this category too, although Flipkart and paytm are not far behind.
- 8. Quickness to complete purchase: Amazon seems to take the lead in this category too, although Flipkart and paytm are not far behind.
- 9. Availability of several payment options: Here, Amazon and Flipkart, both are the favourites. Although a lot of people also tend to go towards Myntra
- 10. Speedy order delivery: Amazon seems to take the lead in this category too, followed by Flipkart.
- 11. Privacy of customers' information: Amazon has a good reputation for maintaining privacy, followed by Flipkart
- 12. Security of customer financial information: Here other than Amazon and Flipkart, Paytm.com, Myntra.com, Snapdeal.com are also trusted by a lot of people. This shows that all compamnies pay special attention to security.
- 13. Perceived Trustworthiness: Amazon and Flipkart are winners here as well. Although Myntra.com and Snapdeal.com are also not far behind.
- 14. Presence of online assistance through multi-channel: Amazon.in, Flipkart.com, Myntra.com, Snapdeal
- 15. Longer time to get logged in (promotion, sales period): Amazon, paytm
- 16. Longer time in displaying graphics and photos (promotion, sales period): Amazon.in, Flipkart.com
- 17. Late declaration of price: Myntra, Paytm, Snapdeal. These companies should work on this area to improve.
- 18. Longer page loading time (promotion, sales period): Myntra and Paytm have bad feedback in this. Flipkart should also have a look into it, as it is at the 3rd place.

- 19. Limited mode of payment on most products (promotion, sales period): Snapdeal is the most voted answer for this.
- 20. Longer delivery period: Paytm and Snapdeal need to shorten their delivery time.
- 21. Change in website/Application design: Amazon.in
- 22. Frequent disruption when moving from one page to another: Amazon.in
- 23. Website is as efficient as before: Amazon.in
- 24. Which of the Indian online retailer would you recommend to a friend?: Amazon/Flipkart

Conclusion of Descriptive Analysis

Comparing the Customer's Perceptions and the Company's performance we can conclude that the Companies likely to have

High Customer Satisfaction and Retenton:

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

High Risk of Customer Churn:

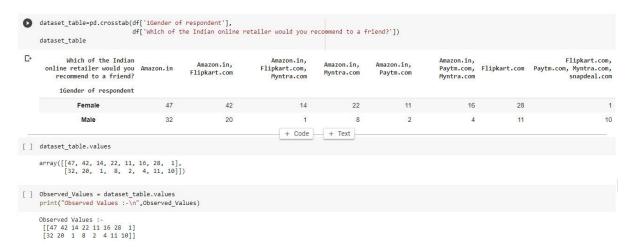
- 1. Myntra.com
- 2. Snapdeal.com

Let us move to Inferential Statistics now

2. Inferential Statistics First Hypothesis

H0: There is no association between gender and e-retail company (Gender and e-retail company are independent)

H1: There is an association between gender and e-retail company



```
[ ] Expected Values=val[3]
[ ] Expected_Values
      array([[53.15613383, 41.71747212, 10.0929368 , 20.18587361, 8.7472119 ,
               13.45724907, 26.24163569, 7.40148699],
[25.84386617, 20.28252788, 4.9070632, 9.81412639, 4.2527881,
                  6.54275093, 12.75836431, 3.59851301]])
 no_of_rows=len(dataset_table.iloc[0:2,0])
      no_of_columns=len(dataset_table.iloc[0,0:8])
      ddof=(no_of_rows-1)*(no_of_columns-1)
      print("Degree of Freedom:-",ddof)
      alpha = 0.05
 Degree of Freedom: - 7
 [ ] from scipy.stats import chi2
      chi_square=sum([(o-e)**2./e for o,e in zip(Observed Values,Expected Values)])
      chi_square_statistic=chi_square[0]+chi_square[1]
[ ] print("chi-square statistic:-",chi_square_statistic)
      chi-square statistic:- 2.1852257166231297
[ ] critical_value=chi2.ppf(q=1-alpha,df=ddof)
    print('critical_value:',critical_value)
    critical_value: 14.067140449340169
[] #p-value
    p_value=1-chi2.cdf(x=chi_square_statistic,df=ddof)
    print('p-value:',p_value)
    print('Significance level: ',alpha)
  print('Degree of Freedom: ',ddof)
    p-value: 0.9488810780740886
    Significance level: 0.05
Degree of Freedom: 7
if chi square statistic>=critical value:
       print("Reject H0,There is an association between gender and e-retail company recommended to a friend")
       print("Failed to Reject H0, There is no association between gender and e-retail company recommended to a friend")
    if p_value<=alpha:</pre>
       print("Reject H0, There is an association between gender and e-retail company recommended to a friend")
       print("Failed to Reject H0, There is no association between gender and e-retail company recommended to a friend")
□ Failed to Reject H0, There is no association between gender and e-retail company recommended to a friend
```

Second Hypothesis

H0: There is no association between age and e-retail company that person would recommend to a friend(age and e-retail company are independent)

H1: There is an association between age and e-retail company that person would recommend to a friend

```
# The 2 Columns needed are 1st and last
dataset_table=pd.crosstab(df['2 How old are you?'],
                                   df['Which of the Indian online retailer would you recommend to a friend?'])
                                                                                                                                          Amazon.in,
Paytm.com, Flipkart.com Paytm.com, Myntra.com,
Myntra.com snapdeal.com
             Which of the Indian
                                                                                  Amazon.in,
                                                                                                   Amazon.in,
Myntra.com
                                                     Amazon.in,
Flipkart.com
                                                                                                                    Amazon.in,
      online retailer would you Amazon.in recommend to a friend?
                                                                              Flipkart.com.
                                                                                  Myntra.com
              2 How old are you?
        21-30 years
                               18
                                                                  24
                                                                                                             13
                                              16
                                                                   18
               31-40 years
                                              27
                                                                  14
                                                                                                                                                    6
              41-50 yaers
           51 years and above
           Less than 20 years
```

```
[ ] #Observed Values  
   Observed_Values = dataset_table.values  
   print("Observed Values :-\n",Observed_Values)

Observed Values :-
   [[18 24 5 13 0 8 8 3]
   [16 18 3 6 8 3 27 0]
   [27 14 0 7 5 6 4 7]
   [6 5 7 0 0 0 0 1]
   [12 1 0 4 0 3 0 0]]
```

```
[ ] val=stats.chi2_contingency(dataset_table)
```

```
Expected_Values=val[3]
Expected_Values
```

```
[] #p-value
     p_value=1-chi2.cdf(x=chi_square_statistic,df=ddof)
     print('p-value:',p_value)
     print('Significance level: ',alpha)
     print('Degree of Freedom: ',ddof)
     print('p-value:',p_value)
    p-value: 0.9441297677059306
    Significance level: 0.05
    Degree of Freedom: 28
    p-value: 0.9441297677059306
if chi_square_statistic>=critical_value:
        print("Reject H0, There is an association between age and e-retail company that person would recommend to a friend")
     else:
        print("Failed to Reject H0, Therefore, There is no association between age and e-retail company that person would recommend to a friend")
    if p_value<=alpha:</pre>
        print("Reject H0, There is an association between age and e-retail company that person would recommend to a friend")
        print("Failed to Reject H0, Therefore, There is no association between age and e-retail company that person would recommend to a friend")
Failed to Reject H0, Therefore, There is no association between age and e-retail company that person would recommend to a friend
    Failed to Reject H0, Therefore, There is no association between age and e-retail company that person would recommend to a friend
```

Result: Failed to Reject H0, Therefore, there is no association between age and e-retail company that person would recommend.