# CUSTOMER RETENTION ANALYSIS

**Project Report** 

### **Abstract**

[E-retail factors for customer activation and retention A case study from Indian e-commerce customers]

# Table of Contents

Problem Definition	2
Conceptual Background of the Domain Problem	3
What is Customer Retention?	3
How to Measure Customer Retention?	3
Why is Customer Retention Important?	4
Review of literature	4
Data Source Format	5
Data Pre-processing	5
Hardware Required	6
Software Required	6
Libraries	6
Numpy	6
Pandas	6
Matplotlib	6
Seaborn	6
Observations	7
Findings	24
Conclusion of the Study	24
Learning outcomes of the study with respect to Data Science:	25
Limitations of this work and Scope for Future	25

### INTRODUCTION

India has an Internet user base of about 718.74 million as of 2020, about 54.29% of the population. Despite being the second-largest user base in world, only behind China (over one billion, 73% of population), the penetration of e- commerce is low compared to markets like the United States (307 million, 88%), or France (60 M, 84%), but is growing, adding around 6 million new entrants every month. The industry consensus is that growth is at an inflection point.

In India, cash on delivery and credit/debit card payment is the mostpreferred payment method, accumulating 75% of the e-retail activities.

Demand for international consumer products (including long-tail items) is growing faster than in-country supply from authorized distributors and e- commerce offerings. Long tail business strategy allows companies to realize significant profits by selling low volumes of hard-to-find items to many customers, instead of only selling large volumes of a reduced number of popular items. The term was first coined in 2004 by Chris Anderson.

In 2017, the largest e-commerce companies in India were Flipkart, Snapdeal and Amazon. In 2018, Amazon beat Flipkart and was recorded the biggest ecommerce in India in terms of revenue.

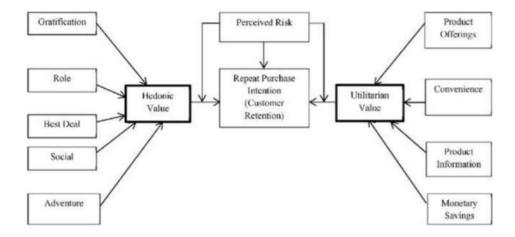
### **Problem Definition**

The online purchasing rate increasing day by day. Customers satisfaction is most important for any business development. The first question that comes into our mind is "What individual factors motivate a buyer to purchase online as well as restrain to purchase online?". We will discuss about this in data analysis part. The main aim of this project is to explore consumer perceptions of internet-based e-retailing. 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.

**Utilitarian value**: Utilitarian value is an objective value which provides some functional benefits to the consumers and helps consumers to accomplish practical tasks.

Hedonistic value: Hedonistic value is subjective (Psychological) value which provides an experiential satisfaction.

In other words, the immediate psychological gratification that comes from experiencing some activity or from consumption of a product.



# Conceptual Background of the Domain Problem

The problem statement examined how customers form expectationson technology based self-service quality and suggested five main attributes of ecommerce store quality, that are service quality, system quality, information quality, trust and net benefit. The result of the study shows that, ease of use and enjoyment were also significant determinants of service quality, while speed of delivery and reliability had positive impact on service quality.

Many businesses focus on customer loyalty programs to remain competitive in today's marketplaces and explore innovative ways to keep their existing customers engaged. Customer retention is a simple concept. Yet, it often requires effort from every department to improve the customer experience and build lasting trust. So, what is customer retentionand why it is so important. Let's know about it.

### What is Customer Retention?

The customer retention is the process of engaging existing customers to continue buying products or services from their business. The goal of customer retention is retaining as many as customer as possible in the company. One of the best ways to understand customer retention is to explore how to calculate customer retention rate for a given period.

# How to Measure Customer Retention?

The simplest way to measure a customer retention rate is to look at the number of new customers acquired, number of previous customers, and total number of customers at the end of any chosen period.

Retention rate = ((No of Total Customers - No of New Customers)/ No of Previous Customers)/100

The calculation provides a percentage that indicates how many customers have been retained over the period.

# Why is Customer Retention Important?

- Customer retention is an express route to a business' financial success. Itallows the companies to build long term, meaningful relationships with customers.
- It empowers customers to share feedback with the company team.
- It helps you understand how loyal and satisfied your customers are, how strong your customer service is and your products are really worth their money or not.
- It enhances the brand reputation and understands future needs of the customers.

### Review of literature

This literature review is the integrated form of relationship marketing, customer loyalty, trust, reliability and privacy policy conceptbecause all of these concepts are inter linked with each other.

The customer retention is possible only when the organization fulfilcustomers' needs and their expectations. A buyer goes through five stageswhile making a decision to purchase like problem recognition, informationsearch, evaluation of alternatives, purchase decision, and purchase behavior. These stages are best explainable when a buyer goes for buying costly items on online stores, such as a diamond jewelry, home appliancesetc. However, in day-to-day purchase, consumers may not go through all these stages, since some commodes do not need information, and based on buyer's previous experience they will visit a store for the purchase.

In addition, companies are now using the Internet to build closer relationships with consumers and marketing partners. Besides competing intraditional marketplaces, they now have access to exciting new market spaces. Moreover, through the internet, consumers can learn about design, order, and pay for products and services, without ever leaving home and then, through the wonders of express delivery, they can receive their purchases in short time. From virtual reality displays that test new products to online virtual stores that sell them, the technology explosion is affecting every aspect of marketing. The internet has now become a truly global phenomenon.

Consumer's satisfaction and purchase decision on online shopping depends on few more issues. These are, estore image, delivery and customers services, service quality and purchase behavior personalization, motivations for online purchase, trust, reliability, privacy, transaction and cost, incentive programmers, web-site design, online interactivity, merchandise motivation, assurance, convenience, responsiveness etc.

Following from the above consideration, this project will find out what individual factors motivate a buyer to purchase online and restrain to purchase online.

### **UNDERSTANDING DATASET**

The main thing that I found in problem statement is, the data given for us is unsupervised data. The problem statement contains both utilitarian value and hedonic value. I have performed both univariate and bivariate analysis to analyze these values using different plots like pie plot, count plot, distribution plot, factor plot etc. These plots give better pattern for analyzing the data. In this project I have done various mathematical and statistical analysis such as describing the statistical summary of the columns in which I found that the count is same for all the columns which means no null values present. Since the dataset contains object data type, I used label encoding method to convert the object data into numerical data. Checked for correlation between the features and visualized it using heat map.

### **Data Source Format**

The data is collected from the Indian online shoppers. Results indicate thee-retail success factors, which are very much critical for customer satisfaction. The dataset is provided by Flip Robo which is in the format xlsx.

There are two excel sheets one is detailed datasheet and other one is encoded datasheet. I have used detailed datasheet for the processing.

The dataset contains 269 rows and 71 columns which is comprised of categorical columns. All the features contain object data type except thefeature Pin code (integer data type).

While describing the data I found skewness and outliers present in the columns. Since all the columns are categorical so I haven't removed outliers and skewness.

### **Data Pre-processing**

Firstly, I have imported the necessary libraries and dataset. Checked the dimension of the dataset, data types of the features. Checked information of the data frame using info () and checked the number of unique values present in the dataset. Since the columns had no proper names, so I renamed them with new names.

I have checked the null values and found no null values present in thedataset and visualized it using heat map.

Checked the value count of each column. By checking value count function, I found some of the columns contains duplicate and unwanted entries, so I have replaced them using appropriate values.

Visualized each feature using seaborn and matplotlib libraries by plottingcount plot, pie plot, distribution plot, box plot and factor plot. Performed label encoding. Checked the skewness and outliers. Since all the columns are categorical, so I haven't removed skewness and outliers. Checked the correlation between the features and visualized it using heatmap. Described the data using describe ().

# HARDWARE & SOFTWARE REQUIREMENTS & TOOLS USED

# Hardware Required

• Processor: core i5 or above

RAM: 8 GB or above

ROM/SSD: 250 GB or above

### Software Required

Anaconda 3- language used Python 3

Microsoft Excel

### Libraries

The important libraries that have been used for this project are below:

### Numpy

It is defined as a Python package used for performing the various numerical computations and processing of the multidimensional and single dimensional array elements. The calculations using Numpy arrays are faster than the normal Python array.

### **Pandas**

Pandas is a Python library that is used for faster data analysis, data cleaning and data preprocessing. The data-frame term is coming from Pandas only.

### Matplotlib

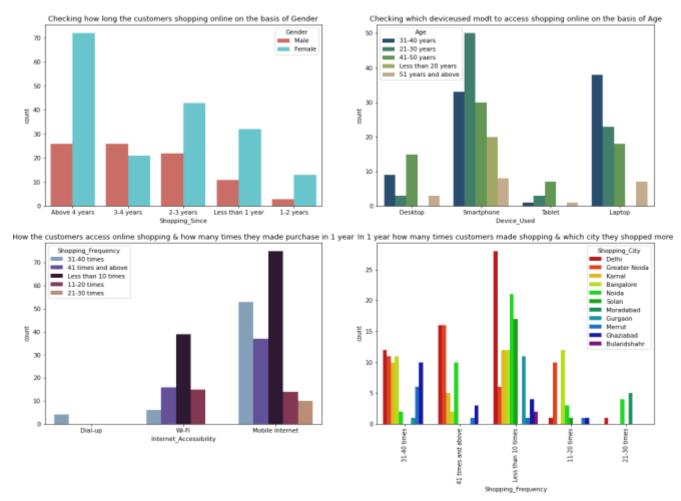
It is a Python library used for plotting graphs with the help of otherlibraries like Numpy and Pandas. It is a powerful tool for visualizing data in Python. It is used for creating statically interferences and plotting 2D graphs of arrays.

### Seaborn

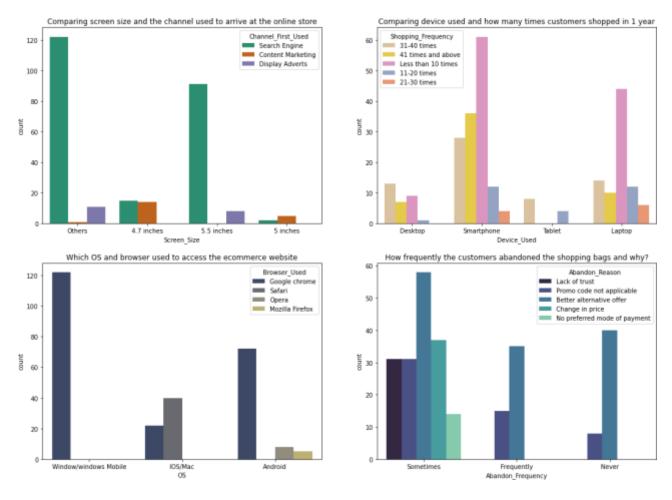
It is also a Python library used for plotting graphs with the help of Matplotlib, Pandas, and Numpy. It is built on the roof of Matplotlib and is considered as a superset of the Matplotlib library. It helps in visualizing univariate and bivariate data.

# **VISUALIZATIONS**

Both univariate and bivariate analysis have been performed to visualize data. In univariate analysis I have used pie plots, count plots and distribution plot and in bivariate analysis I have used count plot, factor plot and boxplots. Here I will be showing only bivariate analysis plots to analyze the data.

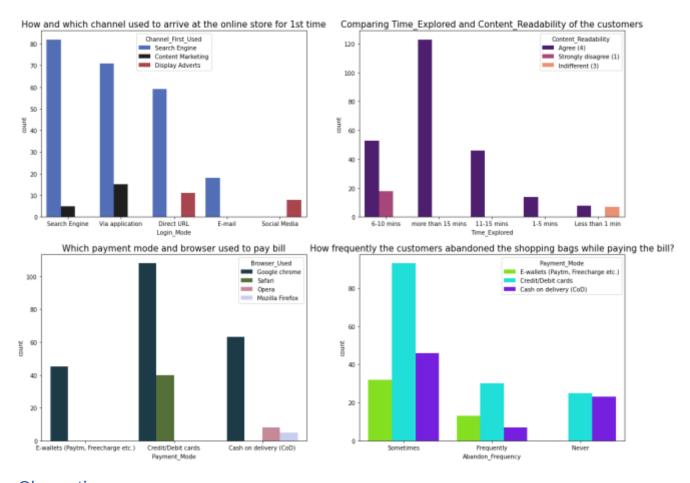


- Most of the female customers shopped online from more than 4 year and the count is also high for the females who shopped from 2-3 years. And only few male customers shop online more than 4 years.
- Many of the customers access the shopping websites more than 31-40 times in 1 year through Mobile
  Internet to shop the product also most customers who used mobile internet to access the online
  shopping website made online purchase less than 10 times in a year. And only few of the customers
  used Wi-Fi network to access the shopping store.
- Most of the customers used ecommerce websites less than 10 times in ayear from the city Delhi to shop the products.



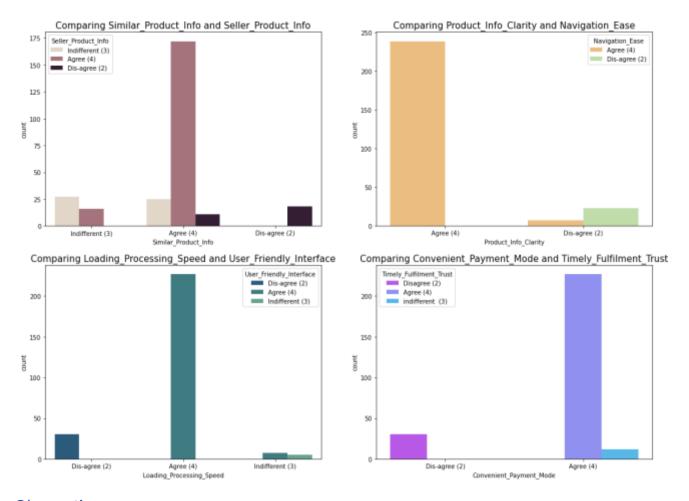
- The customers having their mobile screen size say 6 inches(others) have followed search engine channel to arrive at their favorite online store for the first time. Also, the customers who have their screen size 5.5 inches also used search engine channel to access the online shopping store.
- Most of the customers used Smartphones 31-40 times in a year to accessthe ecommerce websites to shop the products.
- Many customers having windows operating system in their device ran Google chrome to access the
  ecommerce shopping websites and some ofthe customers having IOS/Mac operating system used
  Google chrome as well as Safari to reach the online shopping store.
- Due to Lack of trust on the ecommerce websites, sometimes most of the customers abandoned the
  websites and some of the customers abandoned the shopping website due to the promo code not
  applicable. which means, if the product is having the special price or some catalogue price rule is
  applicable on it. Then coupon code should not be applicable on the products.

So, it is important for the ecommerce companies to create discount price, offers, coupon codes to retain the customers.



- Search engine is the most used channel by the customers to arrive their favorite store for the first time and after visit the website for the first time, most of them used the same channel to reach the online retail store to shop the products again.
- Most of the customers agreed that the content on the website is easy to read and understand also they explored more than 15 mins before makingthe purchase decision and some of the customers strongly disagreed that the content is not good and they explored 6-10 mins before making the purchase decision. So ecommerce websites should enable some images and the should contain clear structure, so that the customers can easily read and understand the content of the product.
- Most of the customers used google chrome to reach the websites and theypreferred to pay their product price using Credit/Debit cards and only few of the customers used Safari browser to reach the e-retail websites.
- Sometimes the customers used to abandon their selected items and wantsto leave without making payment

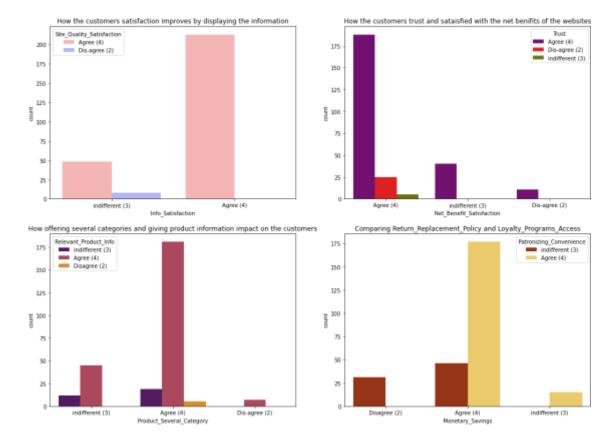
and most of them making the payment using E-wallets methods.



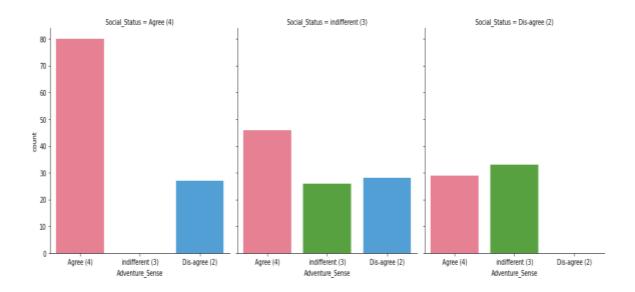
- Almost all the customers agreed that ecommerce websites have empathy towards them and these sites
  being able to guarantee the privacy of the customers. That is the online retailers must be able to resolve all
  the queries of the customers and they have to assure the customers keeping alltheir credential secured and
  should not share with others. If the websites give guarantee about the privacy, then the customers make
  shoppingregularly which will enhance the company's sales.
- Most of the customers agreed that the online shopping gives monetary benefits and responsiveness, availability of several communication channels will help them more while shopping online which means if one channel is not available then customers can easily reach out to other channel to fulfil their benefits. So, it is important for the online e-retailer companies to provide various channels to communicate with the customers. The ecommerce websites should ask the feedback regarding their services, ratings of the products, reviews etc. and also they try to communicate with the customers in different social platform then only customers get satisfied by the e-retailers sites and make more shopping on the particular websites

regularly which intends to increase the sales of the company. If one website gives less price and more discount for particular product then the customers tend to shop more in that particular website. So, the companies must try to give less price then customers like their offers and retention also increases.

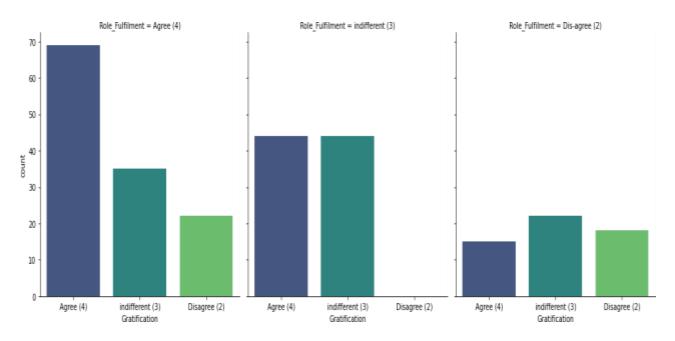
- Most of the customers believed that they enjoy online shopping also shopping online is convenient and flexible and some of the customers who disagreed with the enjoyment of the shopping, they are not convenient with the online shopping. Some customers shop online for their enjoyment purpose they are termed to be hedonistic, for them shopping online gives experiential satisfaction. They contribute much for the ecommerce companies by buying all the costly products randomly.
- Most of the customers agreed that return and replacement policy of the e-retailer is important for purchase decision also gaining access to loyalty programs is a benefit of shopping online. Many return policies have conditional agreements, such as time limits, that must be clearly defined and expressed at the time of purchase or else the customers won't get the chance to return their damaged or dissatisfied products due to this they may not access the same website if they want to shop again. It is evident from the fact that the customers actually not liking the products completely, they are just purchasing the products and returning them in case of any dissatisfaction. So, it is important for the online shopping websites to make easy return and replacement policy if they want to retaintheir customers. Also, by gaining access to loyalty programs, the customersget more and more rewards, increasing their engagement rate and thus bringing more profit to both company and customer.



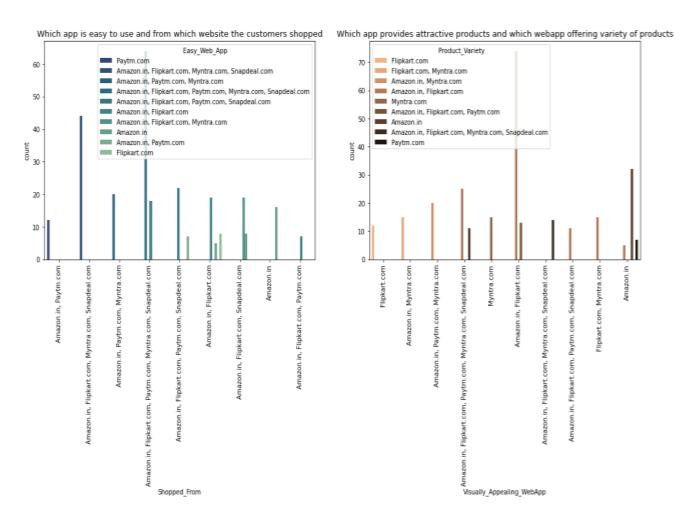
- Many customers agreed that displaying quality information on the website improves satisfaction of customers since they believe that displaying qualityinformation have significant association with customer satisfaction and they are satisfied and happy while shopping on good quality websites. In order to obtain high levels of customer satisfaction, high service quality is needed, which often leads to favorable behavioral intentions also a website with good system quality, information quality, and electronic service quality is a key to success in e-commerce. So, the online e-retailers must display allthe information about the product then only customers get an idea to buy the products regularly.
- Most of the customers agreed that net Benefit derived from shopping online can lead to users' satisfaction also they believe that user satisfactioncannot exist without trust. The e-retailer should provide crediting points (net benefits) so that the customers tend to buy frequently in order to gain points. Trust is also a major factor for customers to decide whether to buy products from online stores or not also trust helps reduce uncertainty when the degree of familiarity between the customer and transaction security mechanism is insufficient. If customers have a high level of trust toward thewebsite, it is more likely for them to have intention to purchase so it's important for the ecommerce website to make the customers get trust on them.
- The customers are more likely to purchase on the same websites if that website offers them a wide variety of products in several category and giving relevant information about the products. Having multiple product lines may allow to grow the ecommerce business and finding accurate and up-to-date information of the product must be stated clearly in the websiteso that the customers can buy the products without any confusion.
- In this digital and competitive world, everyone wants to save money, the ecommerce company need to know that the best way to sell online is to make the consumer feel that he is saving money doing so. And not just feel, online shopping should result in a lot of saving for the consumer. This saving would automatically get converted into trust and brand equity for the seller. To do this the online companies should offer the best deals and bargains to the consumer through social platforms. If the retailers give some discounted prices then the customers can make money savings and they tend to purchase in the same websites regularly. Convenience is the important thing for ecommerce and most of the customers agreed with it.



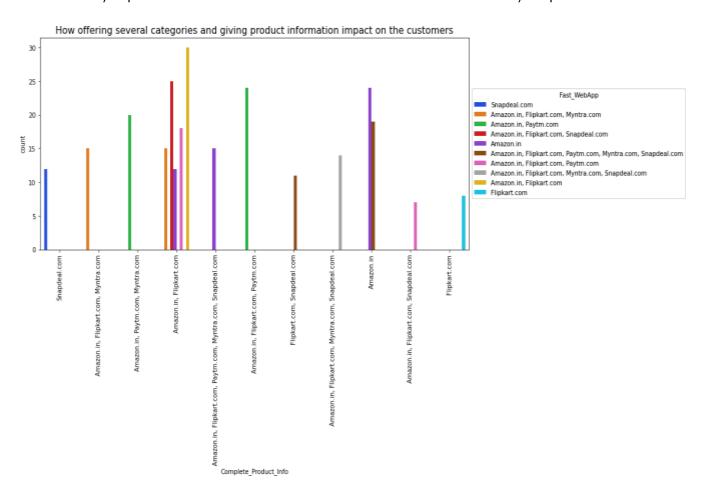
- Most of the customers agreed that shopping on the website gives the sense of adventure. The adventures in the shopping websites gives positive activity to experience an amplified enjoyment to the customers while shopping on websites. They also believe that shopping on preferred e-tailerenhances the social status of the customers. Many customers think they are adventuring while shopping online as they search for low cost and high discount products to buy and prefer the same to the others. In this way they think that shopping in the website gives them the adventure.
- Shopping online won't affect anyone's status and the customers agreed that shopping on preferred eretailer enhances their social status.



- Most of the customers agreed that they felt gratified while shopping on theirfavorite e- retailer. This is because the e- retailer companies can successfully make up for a mistake or a dissatisfied customer is to be equally expedient in addressing the customer's needs.
- Also, most of the customers agreed that shopping on online website helps themfulfil their certain roles. Fulfilment refers to activities that ensure customers receive what they ordered, including the time of delivery, order accuracy, and delivery condition, also the customers cannot see the product directly before theypurchase it. Companies must ensure delivery timeliness, order accuracy, and delivery conditions to provide superior service quality for customers. The companies must understand that the customer satisfaction is an indication of the customer's belief of the probability of a service leading to a positive feeling. If the companies give positive vibration to the customers by giving chance to fulfil their roles, then they shop more on that particular website.



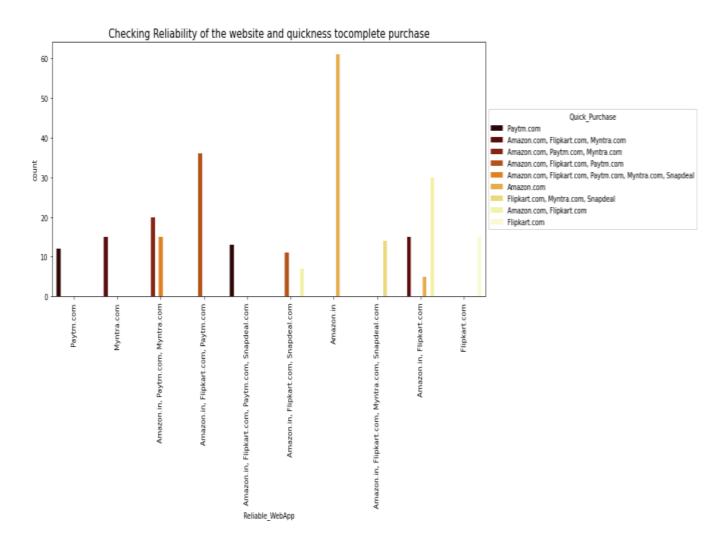
- There are many websites for selling the products among them Amazon.in, Flipkart.com, Paytm.com, Myntra.com, Snapdeal.com are easy to use andshop. Most of the customers used these websites more, this is because, these websites may provide less price products, good discounts and may have lots of varieties of similar products with different brand.
- Amazon and Flipkart have high visual appealing web-page layout compared to others that means these
  websites provides some colorful graphics on thehomepage. The more people find the website attractive,
  there are higher chances that they will stay a little longer in that website, also these websites provide wild
  variety of products in an attractive manner which makes the customers to buy the product.



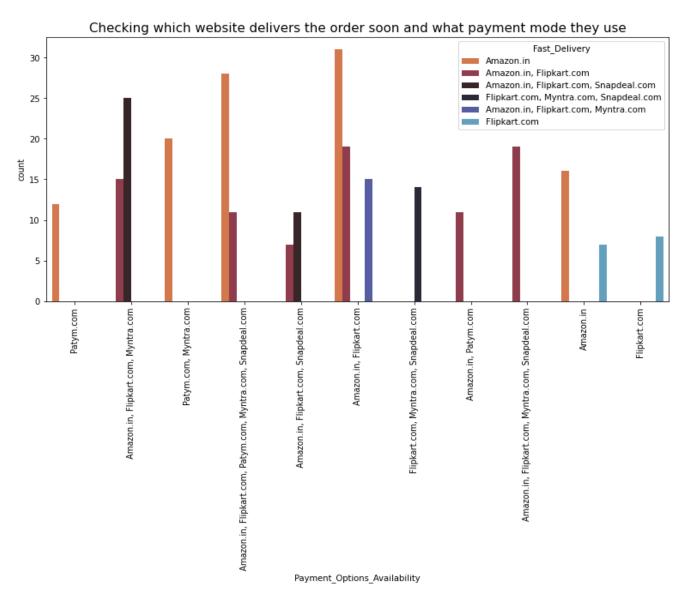
### Observations

• The most common problem which is faced by the customers is server problem, in many websites these problems are common. Also, only few websites provide the relevant information about the products. These thingsmay lead the customers to have bad impression on these websites.

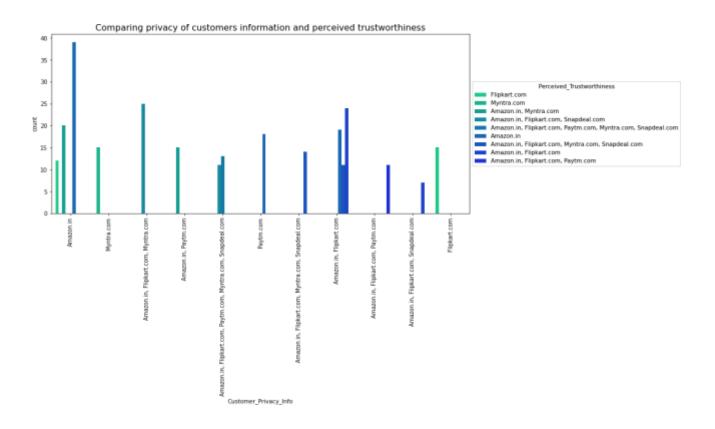
• From the plot we can visualize that the amazon and flip kart websites gives complete and relevant information and these websites have no issue with the server and most of the customer liked the web speed of both amazon and flipkart.



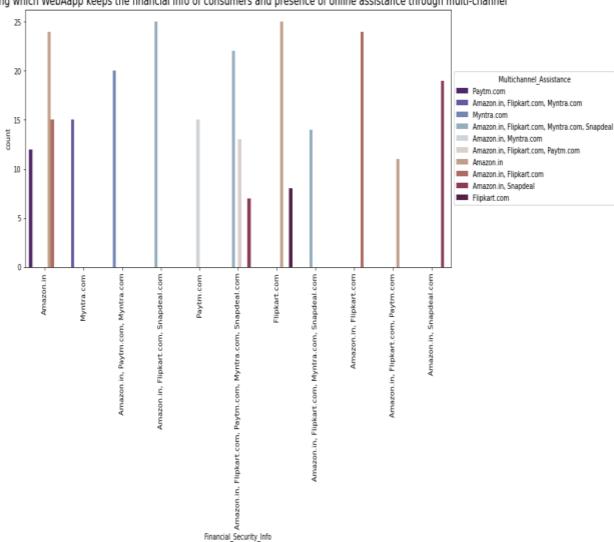
- The consumer determines the shop's reliability based on the information transmitted by the shop and
  certain sites offer customers the opportunity to purchase items that are used which means they are likely
  to be the mostreliable. Some of the customers completes their purchase very quickly due to the discount,
  less price, free delivery charges etc. provided by the ecommerce websites.
- From the plot we can notice amazon site is more reliable and most of thecustomers complete their purchase on amazon very quickly.



- Having different types of payment methods will helps the customers to paythe invoice easily using their
  choice of payment and if the websites have speedy delivery methods without delivery charge, then the
  customers like to buy the products in those websites.
- Here amazon and flip kart have several payment options and amazonindeed has speedy order delivery compared to other websites.

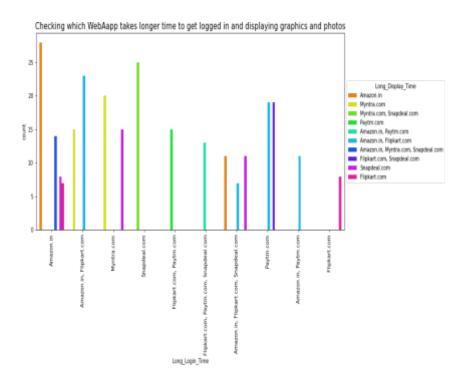


- Security/privacy refers to the security of credit card payments and privacyof shared information like name
  of the customer, address and phone number. Customers are always concerned whether the website would
  protect them against fraud after a transaction. So, website security and privacy are important to assess the
  service quality of online stores. The customers think that buying online means taking risk, in this case trust
  is more important thing for both merchant and customer.
- Most of the customers trusts amazon followed by flip kart in terms of keeping their privacy of data information secured and the customers who believes that amazon website keeps their financial information as secrete also trusts flip kart, Myntra, Snapdeal and Paytm in terms of keeping their financial information secured. Most of the customers believed that Amazonhas perceived trustworthiness compared to others. Apart from this, customers believed that flip kart and Myntra also have perceived trust worthiness.



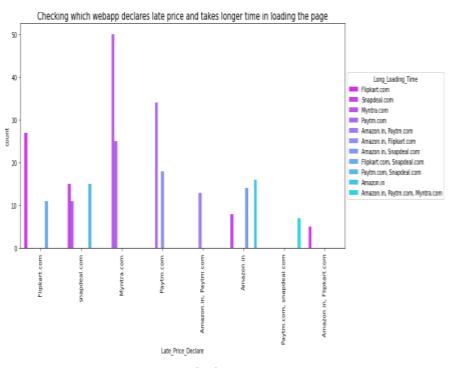
### Checking which WebAapp keeps the financial info of consumers and presence of online assistance through multi-channel

- The customers trust that amazon and flip kart keeps their financial information private and they never share any type of information to others.
- Multi-channel retailing provides several benefits which includes several shoppers like the convenience that is provided through online channels in comparison to physical stores. Most of the customers like Amazon in termsof presence of online assistance through multi-channel

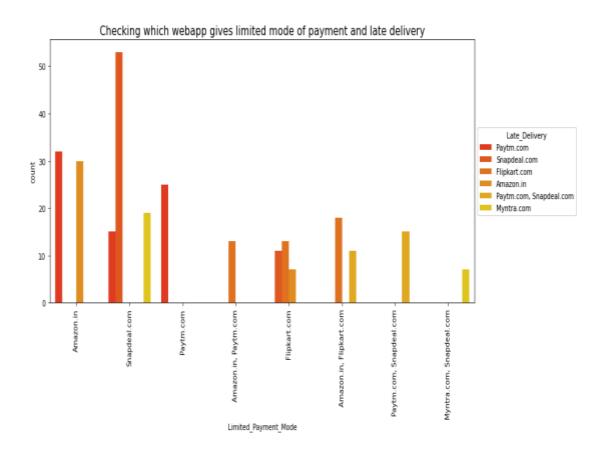


### **Observations**

The customers mostly choose amazon website for buying products as it gives promotions and sales periods in some days, on these days most of thecustomers attracted by the offers provided by the websites, wants to buy the products. So, amazon will take more time to allow the customers to getlogin into the site. When there is promotion or sales period, amazon and Myntra takes longertime to display the graphics and photos.

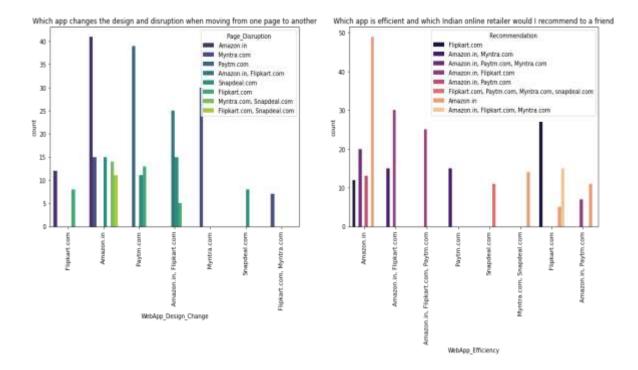


- When there is promotion and sales, Myntra takes time it loads the pageand it has late declaration of price in these days.
- Myntra declare the late price in order to clear the sales and they fix the price by comparing with other
  websites and they end up sales by providing benefits to the customers. In this time most of the
  customers tries to shopin this website so it takes long loading time.



### **Observations**

Snapdeal has limited mode of payment on most of the products followed by Amazon. And paytm takes more time to deliver the product. So, this website may not satisfy the customers due to late delivery.



- Amazon is the website where they frequently change their application designs in order to attract the
  customers and satisfies the customers' needsand they tend to make customers by updating everyday as
  per the trend. But the disadvantages of this website are when moving from one page to other it slows
  down and sometimes it may shutdown.
- Amazon is the website which is more efficient as before and I suggest Amazon.com and Flipkart as a
  best Indian online retailer store for purchasing all types of products, as they provide enormous amounts
  ofbenefits.

# INTERPRETATION OF RESULTS

The results that were interpreted from the visualization are as follows:

- From the survey we found that the customers agreed with certain things like ecommerce websites have empathy towards them, content must be easy to read and understand, similar products should be highlighted for product comparison, payment convenience, trustworthy and they felt gratified while shopping etc.
- The respondents were asked to give ratings and feedback regarding certain statements that may be
  used to describe their ideal online store. We have found answers from customers like which websites
  among listed sites they are familiar with, they find easy to use, reliable, secured, about their delivery,
  change in web design, etc.
- From the visualization we have found Amazon.in was the most used and favorite websites for the
  customers and Flip Kart was the second favorite webapp while snapdeal.com and Paytm.com were the
  least used websites by the customers.

### **CONCLUSION**

Key Findings and Conclusions of the Study are stated below:

### **Findings**

- In this project we have investigated ecommerce quality in online businesses and develop new knowledge to understand the most important dimensions of E-retail factor for customer activation and retention.
- This project aimed to enhance prior understanding of how ecommerce websites affected customer satisfaction, customer trust, and customer behavior, i.e., repurchase intention, customer loyalty, and site revisit.
- The dimensions like information about the products, convenient payment mode, Trust, Fulfilment, website design change, security/privacy and many others had a positive impact on the ecommerce websites for customers. Also, some of the dimensions like ease of navigation, loading and speed, late delivery etc. did not have impact on the ecommerce websites.
- Thus, a company needs to pay attention to these dimensions more specifically and seek breakthroughs
  that can improve its performance and e-service quality.

### Conclusion of the Study

- The endeavor of this study is to identify the motivating factors towards online shopping and in which e-retailer the customers likely to shop more.
- In this project, I have done some feature engineering by replacing the unwanted entries by suitable
  values, found no null values, and renamed the columns by giving new names. Visualized the data using
  count plot, factor plot, pie plot and distribution plot, also encoded the object data into numerical using
  label encoding method. Checked the statistical summary of the dataset and checked for skewness,
  outliers and correlation between the features.
- From the analysis it was found that consumers purchasing decisions were dependent on various factors.
   All these motives motivate consumers to purchase products through online. According to consumers' opinions, "time saving" is the most important motivating factor for online shopping.

- Again "information availability", "open 24/7", "huge range of products/ brands", "reasonable prices", "various offers for online products", "easy ordering system", and "shopping fun" are other motivating factors for online shopping respectively. Also, "online payment system", "personal privacy or security issues", "delaying of delivery" and "lacks of personal customer service" are the main inhibitions of online shopping to the respondents.
- After visualizing the data, I found Amazon is the best online store where the customers trust on buying
  products and it has positive impact on the customers. Also, amazon and flip kart have increased
  customers' expectations. So, they are the best online retailer who makes the loyal customers and satisfies
  the customers.
- It was also observed that online shopping is not trustworthy and reliable to some consumers due to only
  online payment system and personal privacy. In addition, online security is a major concern for the
  consumer particularly in terms of fraud, privacy and hacking. So, the organizers should make up their
  organization for better sales.

### Learning outcomes of the study with respect to Data Science:

- Customer satisfaction and customer trust appeared as the outcomes of overall e-retail factor. The results of the analysis showed that e-retail factor had a positive impact on customer satisfaction. The majority of research done about e-retail factor states that customer satisfaction is the main determinant impacting on e-retail factor. It supports the idea that there is a significant relationship between e-retail factor and customer satisfaction. E- retail factor also had a positive impact on customer trust. The better the e- retail factor of a company, the higher the customer trust. Providing good service quality enhances customer satisfaction and customer trust.
- From the above analysis we found that the mains reasons or factors which attract consumers to do shopping online and then main reasons or obstacles which discourage consumers from shopping online. Therefore, from the analysis, it is found that most of the respondents use internet daily but most of the respondents do not use internet daily to buy products. Nearly half of the total respondents' opinions were that they would only use the internet to buy products when the need arises to do so.

### Limitations of this work and Scope for Future

- The limitation to the analysis is that there are more female customers who shop more on e-retailer
  websites compared to malecustomers, this is due to the minimum data. Since the data is very less so it's
  bit difficult to come to the conclusion on the retention rate.
- There was no dependent variable in the dataset. If the dataset contains target variable, then it gives good visualization and relationbetween the feature and target and the model prediction is also possible of the

target variable present. Recommendation to the online sellers (Scope for future work) Based upon the findings and analysis, the following assumptions (recommendations to the onlineseller) are presented for the online sellers to make online shopping more popular, convenient, reliable and trustworthy.

- Transaction security and consumers data safety are principal concerns of online customers purchasing
  products or services online. Therefore, online vendors can assure their consumers' by offering personal
  information privacy, protection policy and guarantee for transaction security by improving their
  technological systems.
- Retailers should be careful about the annoying factors of online shopping such as being unable to access
  the website, long delays incompleting online orders, inconsistencies in the items available online, mistakes
  in filling orders, and the hassle of returning goods.
- Online sellers can be more concerned about delivery times, delivery charge and product return policies.
   They can make it easier, quicker and reliable, so that consumers can enjoy the online shopping experience and they likes to shop in the particular websites regularly.
- The respondents thought that products' mixing up or they find different product at delivery time which
  is the main inhibition of online shopping, so that the sellers must be very cautious when it comes to
  delivery.
- Getting feedbacks from the customers is also one of the important thing to improve the sales of the company. The e-retailer wants to keep the customer happy in order to build the successful business, but they easily fall into a trap of assuming that the customers will give feedback without being prompted. If the retailers are doing something wrong, most of the customers won't complain, they will just go elsewhere. So, it is important to ask customers how they really feel about their services.