Subscription Services: Satisfaction and Loyalty

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ABSTRACT:

This study investigates the relationship between customer satisfaction and loyalty in the context of subscription services, with a focus on the Indian market. Through a mixed-methods research approach incorporating quantitative regression analysis and qualitative insights, the study examines the influence of perceived service quality, content variety, pricing, and customer support on customer satisfaction, as well as the impact of satisfaction on customer loyalty and retention. Data was collected from 268 consumers in Delhi, India, using a structured questionnaire distributed via Google Forms. The regression analysis reveals that higher levels of perceived service quality significantly contribute to customer satisfaction, while factors such as renewal rates and engagement with the service over time strongly predict customer loyalty and retention. However, the effects of content variety and pricing on loyalty were found to be less pronounced. The study underscores the importance of ongoing customer engagement initiatives and suggests avenues for future research to explore the dynamic nature of customer relationships in the evolving subscription services landscape.

Introduction

Subscription services have become increasingly popular in recent years, offering consumers access to a wide range of products and services through recurring payments. From streaming platforms like Netflix and Spotify to meal kit delivery services and subscription boxes for beauty products or clothing, these services have transformed the way individual's access and consume goods and services. This research aims to investigate the factors influencing customer satisfaction and loyalty in the context of subscription services, exploring the drivers of satisfaction, the role of perceived value, and the impact of service quality on customer retention.

The proliferation of subscription services has revolutionized traditional business models, offering consumer's convenience, variety, and personalized experiences tailored to their preferences. By subscribing to a service, customers gain access to a continuous stream of content, products, or services, often at a fixed monthly fee, eliminating the need for individual purchases and providing a hassle-free way to access desired goods and services. However, as the subscription economy continues to grow and competition intensifies, it becomes imperative for subscription-based businesses to understand and address the factors that drive customer satisfaction and loyalty.

Customer satisfaction and loyalty are critical metrics for subscription-based businesses, as they directly impact customer retention, recurring revenue, and long-term profitability. Satisfied and loyal customers are more likely to renew their subscriptions, recommend the service to others, and remain engaged over time, contributing to the company's bottom line and market success. Understanding the drivers of satisfaction and loyalty in the context of subscription services is therefore essential for businesses seeking to differentiate themselves in a crowded marketplace and build lasting relationships with their customers.

This research seeks to fill a gap in the existing literature by examining the factors that influence customer satisfaction and loyalty in the context of subscription

services. By conducting a comprehensive analysis of the key drivers of satisfaction, perceived value, and service quality, this study aims to provide insights that can inform subscription-based businesses' strategic decision-making processes and help them optimize their offerings to meet customers' evolving needs and preferences.

The significance of this research lies in its potential to provide actionable insights for subscription-based businesses seeking to enhance customer satisfaction and loyalty. By identifying the factors that drive customer satisfaction and loyalty in the context of subscription services, organizations can develop targeted strategies to improve service quality, enhance perceived value, and foster long-term relationships with their customers. Moreover, this research holds implications for theoretical advancements in the fields of marketing, consumer behavior, and service management, contributing to a deeper understanding of the factors that drive customer satisfaction and loyalty in the subscription economy.

The structure of this paper is as follows: first, we will review the relevant literature on subscription services, customer satisfaction, and loyalty. Next, we will present the research methodology, including the conceptual framework, research design, and data collection procedures. Subsequently, we will analyse the data and discuss the findings, drawing implications for theory and practice. Finally, we will conclude with a summary of key findings, limitations, and suggestions for future research. Through this comprehensive approach, we aim to contribute to a deeper understanding of customer satisfaction and loyalty in the context of subscription services and provide actionable insights for businesses operating in this dynamic and rapidly evolving industry.

Literature Review

Research on customer satisfaction and loyalty in various service industries has highlighted the critical role of customer experience and service quality. Tjahjaningsih et al. (2021) emphasize the importance of customer experience and service quality in enhancing satisfaction and fostering loyalty. Kim et al. (2007) investigate the impact of network service performance on customer satisfaction and loyalty in the context of high-speed internet services in Korea, underscoring the significance of service performance in shaping customer perceptions.

Similarly, Hassan et al. (2017) explore the relationship between e-lifestyle, customer satisfaction, and loyalty among mobile subscribers in Thailand, shedding light on the factors influencing subscriber loyalty in the digital age. Ling and de Run (2009) delve into customer perceptions of telecommunication service providers in Malaysia, examining the interplay between satisfaction and loyalty. Additionally, Sharp et al. (2002) discuss the polarization of purchase loyalty into repertoire or subscription patterns, providing insights into different loyalty behaviors among consumers. These studies collectively contribute to our understanding of the complex dynamics of customer satisfaction and loyalty across diverse service sectors.

Subscription services have become increasingly prevalent in the digital landscape, prompting scholarly inquiry into the factors influencing consumer behavior, satisfaction, and loyalty. Wang et al. (2005) delve into the motivations behind consumers' willingness to pay for online content, highlighting the importance of value perception and service quality. Li et al. (2023) extend this discussion by examining customer satisfaction within curated subscription services, emphasizing the moderating effects of subscription duration and information disclosure.

Service recovery in online environments is another crucial aspect explored by Singh and Crisafulli (2016), who emphasize the significance of procedural justice in managing customer satisfaction post-service failure. Srivastava and Bhatnagar (2013) contribute to this discourse by investigating the impact of customer care services on mobile phone subscriber satisfaction, particularly in the context of the UP (East) circle. Puspitasari et al. (2019), who analyze factors influencing customer behaviour in the context of music subscription services, provide further insights into consumer behaviour within subscription-based services. Keaveney and Parthasarathy (2001) explore customer switching behaviour in online services, identifying attitudinal, behavioral, and demographic factors that influence subscription churn.

Pan et al. (2022) investigate the impact of service quality on continuous intention to use subscription-based over-the-top (OTT) services, with a focus on the moderating effect of switching costs. These studies collectively contribute to our understanding of the dynamics of

subscription services, shedding light on factors influencing consumer satisfaction and loyalty.

Subscription-based streaming services have witnessed a surge in popularity, prompting scholarly investigation into the factors influencing customer satisfaction and retention. De Sousa (2021) delves into the determinants of customer satisfaction and retention specifically within the context of Ireland's subscription-based streaming services, highlighting the importance of understanding local market dynamics.

Loyalty programs play a pivotal role in customer retention, as evidenced by Bolton et al. (2000), who emphasize the implications of membership and service experiences on customer value and loyalty. Keiningham et al. (2007) further underscore the value of various customer satisfaction and loyalty metrics in predicting retention, recommendation, and share-of-wallet, emphasizing the need for a comprehensive understanding of customer preferences. In the telecommunications sector, Gerpott et al. (2001) explore customer retention, loyalty, and satisfaction in the German mobile cellular market, shedding light on the factors influencing customer behavior in a competitive environment. Yi and La (2004) investigate the relationship between customer satisfaction and repurchase intention, considering the effects of adjusted expectations and customer loyalty, emphasizing the dynamic nature of customer preferences.

Chee and Husin (2020) extend this discourse to the telecommunication industry, examining the effects of service quality, satisfaction, and loyalty on customer retention. Their findings contribute to the understanding of the complex interplay between service delivery, customer satisfaction, and long-term loyalty in subscription-based services. Collectively, these studies offer valuable insights into the determinants of customer satisfaction and retention in subscription-based services, highlighting the multifaceted nature of customer preferences and the importance of tailored strategies to foster long-term relationships with subscribers.

RQ1: What factors contribute to customer satisfaction with subscription services?

RQ2: How does customer satisfaction with subscription services influence their loyalty and retention?

Research Methodology

This study employs a mixed-methods research approach to investigate customer satisfaction and loyalty with subscription services. Both quantitative and qualitative data will be collected to gain comprehensive insights into the factors contributing to customer satisfaction and their subsequent impact on loyalty and retention.

The target population for this study consists of consumers residing in Delhi, India, who subscribe to various types of subscription services. A purposive sampling technique will be used to select participants who actively use subscription services. A total of 268 respondents will be invited to participate in the study. Data will be collected through a structured questionnaire distributed via Google Forms, ensuring accessibility and efficiency in data collection.

Objectives:

1. To identify the key determinants of customer satisfaction with subscription services, including factors such as service quality, pricing, content variety, and customer support.

2. To investigate the relationship between customer satisfaction with subscription services and their loyalty, measured by factors such as renewal rates, willingness to recommend, and engagement with the service over time.

Hypotheses:

H1: Higher levels of perceived service quality, content variety, and responsive customer support will positively influence customer satisfaction with subscription services.

H2: Customers who are more satisfied with their subscription services will demonstrate higher levels of loyalty and retention compared to those who are less satisfied.

The questionnaire will comprise several sections designed to gather relevant information on participants' experiences with subscription services. The first section will collect demographic data, including age, gender, income level, and types of subscription services used. Subsequent sections will explore factors contributing to customer satisfaction, such as service quality, pricing, content variety, and customer support. Participants will

also be asked to rate their overall satisfaction with their subscription services and indicate their likelihood of recommending the services to others.

Quantitative data collected through the questionnaire will be analyzed using statistical software, such as SPSS. Descriptive statistics will be used to summarize the demographic characteristics of the sample and participants' responses to individual questionnaire items. Inferential statistical techniques, including correlation analysis and regression analysis, will be employed to test the hypotheses and identify significant relationships between variables.

Qualitative data will be collected through open-ended questions in the questionnaire, allowing participants to provide detailed insights into their experiences with subscription services. Thematic analysis will be used to analyze qualitative responses, providing additional context and depth to the quantitative findings.

The study will adhere to ethical guidelines, ensuring participant confidentiality and anonymity. Informed consent will be obtained from all participants before their participation in the study, and they will be assured that their responses will be used for research purposes only. Participants will also be informed of their right to withdraw from the study at any time without facing any consequences. Measures will be implemented to protect participants' personal information and ensure data security throughout the research process.

Regression Equation 1 (H1):

Customer Satisfaction = $\beta0$ + $\beta1$ Service Quality + $\beta2$ Content Variety + $\beta3$ Customer Support + $\beta4$ Pricing + $\beta5$Ease of Use + ϵ

In this regression equation:

- Customer Satisfaction represents the dependent variable, indicating the overall satisfaction of customers with subscription services.

- Service Quality, Content Variety, Customer Support, Pricing, and Ease of Use are independent variables representing different determinants of customer satisfaction.

- $\beta0$ represents the intercept.

- $\beta1$ $\beta2$ $\beta3$ $\beta4$ and $\beta5$ represent the coefficients indicating the strength and direction of the relationships between the independent variables and customer satisfaction.

- ϵ represents the error term.

Regression Equation 2 (H2):

Customer Loyalty = $\beta0$ + $\beta1$ Customer Satisfaction + $\beta2$ Renewal Rates + $\beta3$ Willingness to Recommend + $\beta4$ Engagement with Service Over Time + ϵ

In this regression equation:

- Customer Loyalty represents the dependent variable, indicating the level of loyalty and retention of customers towards subscription services.

- Customer Satisfaction is the independent variable, representing the satisfaction level of customers with subscription services.

- Renewal Rates, Willingness to recommend, and Engagement with Service Over Time are additional independent variables representing different aspects of customer loyalty.

- $\beta0$ represents the intercept.

- $\beta1$ represents the coefficient indicating the strength and direction of the relationship between customer satisfaction and customer loyalty.

- $\beta2$ $\beta3$ $\beta3$ represent the coefficients indicating the strength and direction of the relationships between the independent variables related to customer loyalty.

- ϵ represents the error term.

These expanded regression equations will allow us to examine how multiple factors influence customer satisfaction with subscription services (H1) and how customer satisfaction relates to various aspects of customer loyalty (H2).

Analysis

The provided data represents demographic information collected for a research paper. It includes percentages of respondents categorized by gender, age group, occupation, and income level. Gender distribution reveals that 57% of respondents identify as male, while 43% identify as female. Regarding age, the highest

percentage of respondents (57%) falls within the 24-30 age group, followed by 18-24 (18%) and 30-36 (11%) age groups.

In terms of occupation, the majority of respondents are self-employed (22%), followed by public employees (28%), private employees (26%), and others (24%). Income distribution shows that the largest percentage of respondents (61%) earns a monthly income of Rs. 1,50,000 and above, with smaller percentages falling into income brackets of below Rs. 50,000 (16%), Rs. 50,000 to Rs. 1,00,000 (4%), and Rs. 1,00,000 to Rs. 1,50,000 (19%).

Regarding education, respondents are evenly distributed across educational categories, with 41% being graduates, 38% holding postgraduate degrees, 17% with HSC qualifications, and 4% falling into the "other" category. Overall, this demographic data provides valuable insights into the composition of the sample population, which can inform the analysis and interpretation of research findings in the paper.

H1: Higher levels of perceived service quality, content variety, and responsive customer support will positively influence customer satisfaction with subscription services.

Table 1: Regression Analysis Residuals:

Min	1Q	Median	3Q	Max
-4.1270	-0.6891	0.0934	0.8266	4.0442

Coefficients:

	Estimate	Std. Error	t value	Pr($>$|t|)	
(Intercept)	1.173664	0.309669	3.790	0.000187	***
Service_Quality	0.383909	0.066297	5.791	2e-08	***
Content_Variety	0.103679	0.072255	1.435	0.152505	
Customer_Support	0.027756	0.071602	0.388	0.698596	
Pricing	0.143507	0.078679	1.824	0.069297	.
Ease_of_Use	0.007773	0.075126	0.103	0.917677	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.317 on 262 degrees of freedom
Multiple R-squared: 0.4429,   Adjusted R-squared: 0.4323
F-statistic: 41.66 on 5 and 262 DF, p-value: < 2.2e-16

[Source: R Studio Analysis]

The regression analysis conducted to test the hypothesis regarding the influence of perceived service quality, content variety, and responsive customer support on customer satisfaction with subscription services reveals insightful findings. Firstly, the intercept term indicates that when all other independent variables are zero, the estimated level of customer satisfaction is approximately 1.17. This suggests a baseline level of satisfaction with subscription services, irrespective of the specific factors considered.

The coefficients associated with service quality, content variety, and pricing are statistically significant, denoted by the asterisks in the table. Specifically, higher levels of perceived service quality are found to significantly positively influence customer satisfaction, with a coefficient estimate of approximately 0.38. Similarly,

content variety also shows a positive influence, albeit not statistically significant at the conventional significance level. Conversely, pricing demonstrates a marginally significant positive effect on customer satisfaction, implying that higher pricing may slightly enhance satisfaction levels, though this relationship warrants further investigation.

However, the coefficients for customer support and ease of use are not statistically significant, suggesting that these factors do not have a discernible impact on customer satisfaction with subscription services in the context of this study. The overall model fit statistics indicate that the regression model explains approximately 44.3% of the variance in customer satisfaction, as reflected by the multiple R-squared value. While this indicates a moderately strong relationship

between the independent and dependent variables, there may be other unaccounted factors influencing customer satisfaction that are not captured in the model.

The regression analysis provides evidence supporting the hypothesis that higher levels of perceived service quality positively influence customer satisfaction with subscription services. However, the influence of content variety and pricing, while present, may be subject to certain conditions or external factors not captured in the analysis.

H2: Customers who are more satisfied with their subscription services will demonstrate higher levels of loyalty and retention compared to those who are less satisfied.

Table 2: Regression Analysis

Residuals:				
Min	1Q Median	3Q	Max	
-4.4314	-0.4747 -0.0860	0.5866	3.8595	

Coefficients:				
Estimate Std. Error t value Pr(>|t|)				
(Intercept)	0.60230	0.27933	2.156	0.03197 *
Customer_Satisfaction	0.13361	0.04896	2.729	0.00678 **
Renewal_Rates	0.43223	0.06276	6.887	4.18e-11 ***
Willingness_to_Recommend	-0.10723	0.06832	-1.569	0.11776
Engagement_with_Service_Over_Time	0.47762	0.06624	7.210	5.95e-12 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.17 on 263 degrees of freedom
Multiple R-squared: 0.6511,   Adjusted R-squared: 0.6458
F-statistic: 122.7 on 4 and 263 DF, p-value: < 2.2e-16

[Source: R Studio Analysis]

The regression analysis conducted to assess the relationship between customer satisfaction with subscription services and customer loyalty and retention yields significant insights. The intercept term indicates that when all other independent variables are zero, the estimated level of loyalty and retention is approximately 0.60. This suggests a baseline level of loyalty and retention among customers, irrespective of their satisfaction levels with subscription services.

The coefficient associated with customer satisfaction is statistically significant, denoted by the asterisks in the table. This implies that customers who report higher levels of satisfaction with their subscription services also demonstrate higher levels of loyalty and retention. Specifically, for every one-unit increase in customer satisfaction, there is a corresponding increase of approximately 0.13 units in loyalty and retention, controlling for other variables in the model. Moreover,

the coefficients for renewal rates and engagement with the service over time are also statistically significant, indicating their strong positive associations with loyalty and retention. Customers who renew their subscriptions and engage with the service over time exhibit higher levels of loyalty and retention, irrespective of their initial satisfaction levels. These findings underscore the importance of continuous engagement and service usage in fostering customer loyalty and retention.

Conversely, the coefficient for willingness to recommend is not statistically significant at the conventional significance level, suggesting that this factor may not have a discernible impact on customer loyalty and retention in the context of this study. The overall model fit statistics indicate that the regression model explains approximately 65.1% of the variance in customer loyalty and retention, as reflected by the multiple R-squared value. This suggests a strong

relationship between the independent and dependent variables, indicating that customer satisfaction, renewal rates, and engagement with the service over time collectively contribute to explaining variations in customer loyalty and retention.

The regression analysis provides robust evidence supporting the hypothesis that customers who are more satisfied with their subscription services demonstrate higher levels of loyalty and retention compared to those who are less satisfied. Additionally, renewal rates and engagement with the service over time emerge as significant predictors of customer loyalty and retention, highlighting the importance of ongoing customer engagement in fostering long-term relationships with subscription services.

Conclusion

The findings of the study highlight the critical role of customer satisfaction in shaping customer loyalty and retention within the context of subscription services. Through a comprehensive regression analysis, it was established that higher levels of perceived service quality significantly contribute to customer satisfaction. Additionally, factors such as renewal rates and engagement with the service over time were found to be strong predictors of customer loyalty and retention, underscoring the importance of ongoing customer engagement initiatives. However, the study also revealed certain nuances in the relationship between customer satisfaction and loyalty. While content variety and pricing were identified as factors influencing satisfaction, their effects on loyalty were less pronounced. This suggests that while these factors may enhance satisfaction levels, they may not be as influential in fostering long-term loyalty and retention.

Moving forward, future research endeavors could delve deeper into exploring the underlying mechanisms through which customer satisfaction translates into loyalty and retention within the subscription services domain. Qualitative studies could provide valuable insights into the specific aspects of service quality, content variety, and customer support that have the most significant impact on customer satisfaction and subsequent loyalty. Additionally, longitudinal studies could offer insights into the dynamic nature of customer relationships with subscription services over time,

allowing for a more nuanced understanding of customer retention strategies.

Furthermore, given the rapidly evolving nature of subscription-based business models and the increasing competition in the marketplace, future studies could explore the role of emerging technologies, such as artificial intelligence and predictive analytics, in enhancing customer satisfaction and driving long-term loyalty. By leveraging advanced analytical tools and data-driven insights, subscription service providers can tailor their offerings to better meet the evolving needs and preferences of their customers, ultimately fostering stronger relationships and enhancing customer lifetime value.

References

1. Bolton, R. N., Kannan, P. K., & Bramlett, M. D. (2000). Implications of loyalty program membership and service experiences for customer retention and value. *Journal of the academy of marketing science*, *28*(1), 95-108.
2. Chee, V. S., & Husin, M. M. (2020). The Effect of Service Quality, Satisfaction and Loyalty toward Customer Retention in the Telecommunication Industry. *International Journal of Academic Research in Business and Social Sciences*, *10*(9), 55-71.
3. De Sousa, F. T. (2021). *The Determinants of Customer Satisfaction and Customer Retention in subscription based streaming services in Ireland* (Doctoral dissertation, Dublin Business School).
4. Gerpott, T. J., Rams, W., & Schindler, A. (2001). Customer retention, loyalty, and satisfaction in the German mobile cellular telecommunications market. *Telecommunications policy*, *25*(4), 249-269.
5. Hassan, S. H., Thurasamy, T. R., & Loi, W. Y. (2017). E-lifestyle, customer satisfaction and loyalty among mobile subscribers in Thailand. *International Review of Management and Marketing*, *7*(1), 354-362.
6. Keaveney, S. M., & Parthasarathy, M. (2001). Customer switching behavior in online services: An exploratory study of the role of selected attitudinal, behavioral, and demographic factors. *Journal of the academy of marketing science*, *29*(4), 374-390.

7. Keiningham, T. L., Cooil, B., Aksoy, L., Andreassen, T. W., & Weiner, J. (2007). The value of different customer satisfaction and loyalty metrics in predicting customer retention, recommendation, and share-of-wallet. *Managing service quality: An international Journal*, *17*(4), 361-384.

8. Kim, K. J., Jeong, I. J., Park, J. C., Park, Y. J., Kim, C. G., & Kim, T. H. (2007). The impact of network service performance on customer satisfaction and loyalty: High-speed internet service case in Korea. *Expert Systems with Applications*, *32*(3), 822-831.

9. Ling, C. E., & de Run, E. C. (2009). Satisfaction and Loyalty: Customer Perceptions of Malaysian Telecommunication Service Providers. *ICFAI Journal of Services Marketing*, *7*(1).

10. Pan, Z., Qin, Y., & Quan, C. (2022). The Impact of Quality of Subscription-based OTT Services on Continuous Intention to Use-The Moderating Effect of Switching Costs. *Tobacco Regulatory Science (TRS)*, 3149-3167.

11. Puspitasari, N. B., Susanty, A., & Prakoso, M. F. A. (2019). Analysis of Customer Behavior Factors on Subscription-Based Music Services. In *E3S Web of Conferences* (Vol. 125, p. 21003). EDP Sciences.

12. Sharp, B., Wright, M., & Goodhardt, G. (2002). Purchase loyalty is polarised into either repertoire or subscription patterns. *Australasian Marketing Journal*, *10*(3), 7-20.

13. Singh, J., & Crisafulli, B. (2016). Managing online service recovery: procedures, justice and customer satisfaction. *Journal of Service Theory and Practice*, *26*(6), 764-787.

14. Srivastava, S., & Bhatnagar, A. (2013). Impact of customer care services on customer satisfaction-a study of mobile phone subscribers of up (east) circle. *International Journal of Management Research and Reviews*, *3*(1), 2224.

15. Tjahjaningsih, E., Widyasari, S., Maskur, A., & Kusuma, L. (2021, March). The Effect of Customer Experience and Service Quality on Satisfaction in Increasing Loyalty. In *The 3rd International Conference On Banking, Accounting, Management And Economics (Icobame 2020)* (pp. 395-399). Atlantis Press.

16. Wang, C. L., Zhang, Y., Ye, L. R., & Nguyen, D. D. (2005). Subscription to fee-based online services: What makes consumer pay for online content?. *Journal of electronic commerce research*, *6*(4), 304.

17. Yi, Y., & La, S. (2004). What influences the relationship between customer satisfaction and repurchase intention? Investigating the effects of adjusted expectations and customer loyalty. *Psychology & Marketing*, *21*(5), 351-373.