

THE IMPACT OF SUBSCRIPTION- BASED MODELS ON CONSUMER BEHAVIOR: A Comparative study of Netflix and Spotify.

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1. ABSTRACT

This study examines the effects of the growing adoption of subscription-based models on consumer behavior across multiple sectors. With the rapid expansion of digital platforms and evolving consumer preferences, gaining insights into this transformation is essential for businesses and policymakers alike. The paper synthesizes existing research, investigates psychological consumer responses to subscriptions, and shares original study results. Findings suggest that subscription services significantly impact buying habits, customer loyalty, perceived worth, and budgeting behavior. The study also offers strategic recommendations for businesses and outlines potential areas for further research.

Keywords: Subscription economy, consumer behavior, behavioral economics, brand loyalty, value perception, subscription fatigue, digital services, recurring revenue models

2. INTRODUCTION

In recent years, subscription-based models have emerged as a defining feature of modern commerce, fundamentally reshaping the way consumers access and engage with products and services. Characterized by recurring payments in exchange for continuous service delivery or product access, this model has proliferated across a broad spectrum of industries, including digital entertainment (e.g., Netflix, Spotify), software services (e.g., Microsoft 365, Adobe Creative Cloud), meal kit deliveries (e.g., Blue Apron, HelloFresh), fashion and personal care (e.g., Stitch Fix, Dollar Shave Club), and even automotive and fitness sectors. The increasing ubiquity of subscriptions signals a significant shift in business-consumer relationships, where one-time purchases are being steadily replaced by long-term, often automated interactions.

The transformation brought about by subscription models is multifaceted. On one hand, these models provide consumers with enhanced convenience, predictable costs, and access to a curated or premium selection of goods and services. On the other hand, they introduce new challenges such as managing multiple subscriptions, subscription fatigue, and the potential for overspending or loss of financial control. Businesses, meanwhile, benefit from predictable revenue streams, improved customer retention, and opportunities for long-term engagement and upselling. However, they also face increased pressure to continuously deliver value and maintain consumer interest in an increasingly saturated market.

The rise of subscription-based consumption is deeply intertwined with digital transformation and evolving consumer expectations. In an era where instant gratification, seamless experiences, and personalization are valued highly, subscription services have positioned themselves as solutions that cater to these demands. Consumers are no longer passive buyers; they seek ongoing value, flexibility, and transparency. Subscription services, through their recurring nature, embed themselves into consumers' routines and lifestyles, influencing not just what people buy, but how and why they buy it.

From a psychological perspective, subscription models tap into several behavioral economics principles that shape consumer decision-making. The concept of loss aversion suggests that once consumers become accustomed to a service, the idea of losing access to it becomes a strong motivator for continued payment. The endowment effect may also come into play, where consumers place higher value on what they already have access to through a subscription. Additionally, the mental accounting framework indicates that consumers perceive subscription expenses differently from one-time purchases, often underestimating the cumulative cost over time.

² The Theory of Planned Behavior (TPB) provides a useful framework for understanding how consumers form intentions to subscribe to a service and how those intentions translate into actual behavior. According to TPB, ² behavior is influenced by attitudes toward the behavior, subjective norms, and perceived behavioral control. When applied to subscriptions, these components can help explain the adoption and cancellation behavior among consumers, as well as their long-term commitment or disengagement.

Despite the growing relevance of subscription models, there remains limited research that fully captures the dynamic interplay between consumer psychology and subscription-based consumption. While much is known about the economic mechanics of subscriptions—such as churn rates, pricing strategies, and lifetime customer value—less attention has been paid to the lived experiences of consumers navigating multiple subscriptions. Issues such as emotional responses to auto-renewals, the role of habit formation, the perception of value over time, and

cultural or generational differences in subscription adoption have yet to be thoroughly explored. This study seeks to bridge that gap by conducting a comprehensive analysis of the impact subscription models have on consumer behavior. By employing a mixed-methods approach—comprising quantitative surveys and qualitative interviews—this paper examines how consumers perceive, manage, and respond to subscription services. It also explores how these models influence consumer loyalty, financial planning, satisfaction, and engagement.

Furthermore, this research is particularly timely given the increasing prevalence of "subscription fatigue"—a term used to describe the cognitive and financial burden of managing multiple ongoing subscriptions. As consumers grapple with the saturation of subscription offerings in their lives, understanding the drivers behind subscription behavior becomes critical for businesses looking to maintain relevance and foster sustainable relationships with their customers.

3. LITERATURE REVIEW

The burgeoning subscription economy represents a profound paradigm shift in modern commerce, fundamentally altering the relationship between businesses and consumers. No longer confined to traditional publishing or gym memberships, this model has permeated nearly every sector, from software and streaming entertainment to curated retail boxes and even automotive services. At its core, the subscription model is about providing continuous access to a product or service in exchange for recurring payments, a strategic pivot that, as authors such as **Zuora** consistently highlight, prioritizes long-term engagement over one-off transactions. This shift towards recurring revenue streams is not merely a tactical adjustment but a fundamental reorientation of business strategy, designed to foster deeper customer relationships and generate more predictable income.

The efficacy of this model in cultivating enhanced customer loyalty and delivering higher lifetime value (LTV) is a central theme in the literature. **Kumar, Shah, & Malhotra** eloquently argue that the intrinsic value proposition of subscription services—convenience, sustained perceived value, and continuous access to evolving content or features—is intrinsically linked to the fostering of this loyalty. Unlike traditional transactional paradigms where each purchase is a new decision, the subscription model aims to integrate itself seamlessly into the consumer's routine, making the decision to continue almost passive. This convenience, coupled with a consistent delivery of perceived value, solidifies the bond

between the consumer and the brand, moving beyond mere satisfaction to genuine allegiance. The recurring nature of payments, therefore, acts as a continuous reinforcement of the customer relationship, leading to significantly higher LTV compared to sporadic, one-time purchases. Businesses benefit from stable revenue forecasts, enabling better strategic planning and investment, while consumers gain from uninterrupted access and often, preferential treatment or exclusive content.

However, the academic discourse also critically assesses the inherent consumer-centric challenges that have emerged within this increasingly ubiquitous model. Behavioral economists **Thaler & Sunstein** introduce a compelling argument that cognitive biases play a significant, often subtle, role in consumer subscription behavior. Their work on concepts like **status quo bias** and **loss aversion** illuminates how psychological mechanisms can implicitly compel consumers to maintain subscriptions even when the actual perceived value or utility of the service diminishes. Status quo bias, for instance, describes the human preference for things to remain the same, making the act of cancelling a subscription (a deviation from the status quo) feel like an effortful decision. Loss aversion, on the other hand, means that the pain of losing a service, even if underutilized, can outweigh the rational economic benefit of saving money. This psychological anchoring contributes directly to the phenomenon of "subscription fatigue," a concept further elucidated by **Clements & Maran** and **Bhatti & Mahmood**. These researchers observe a growing consumer apprehension regarding long-term financial commitments across a multitude of services, as well as the sheer volume of subscriptions that individuals accumulate. The burden of managing multiple recurring payments, coupled with the feeling of paying for underutilized services, creates a sense of exhaustion and dissatisfaction. Their research implicitly advocates for businesses to offer greater flexibility in subscription terms, such as easy pausing or cancellation options, and to explore models of service consolidation or bundling as potential remedies to mitigate this fatigue and improve overall consumer welfare.

A pervasive and arguably the most transformative thread throughout the contemporary literature on the subscription economy is the unparalleled power of personalization and data analytics. **Martin & Murphy** and **Ahlstrom** consistently underscore how the strategic deployment of consumer data to craft bespoke offerings is no longer merely a competitive advantage but a pivotal necessity for elevating customer satisfaction and driving long-term retention. In an era of abundant choice, a generic experience is quickly dismissed. By leveraging sophisticated data analytics, businesses can gain granular insights into individual preferences, consumption patterns, and behavioral nuances. This allows them to proactively recommend relevant content, tailor user interfaces, personalize promotions, and even

anticipate future needs. This data-driven approach, as further elaborated by **Westerman**, facilitates not just superior customer experiences but also provides powerful predictive insights into consumer behavior, enabling companies to proactively manage churn and identify opportunities for upselling or cross-selling. The ability to predict what a user might want next, or how their preferences might evolve, is a cornerstone of the modern subscription model's success.

Conversely, **Martin & Murphy** also raise pertinent ethical considerations concerning data privacy, highlighting its critical role in maintaining consumer trust. While personalization is undeniably a powerful tool, it must be balanced with **robust data protection measures and transparent data handling practices**. Consumers are increasingly aware of the value of their personal data, and any perceived misuse or breach of privacy can severely erode trust, which is foundational to the sustained success of subscription models. The convenience of personalized services must not come at the cost of consumer privacy, and companies must navigate this delicate balance with utmost care and transparency.

Finally, the economic and market-disruptive ramifications of the subscription paradigm are extensively explored within the academic discourse. **Denison** elucidates the dual economic benefits this model offers: predictable revenue streams for businesses, which facilitate stable financial planning and investment, juxtaposed with the potential consumer pitfall of paying for underutilized services. While the "all-you-can-eat" buffet model of many subscriptions initially appears attractive, it can lead to situations where consumers consistently pay for access to a vast library they only partially utilize, creating a hidden cost over time. **Berman**, alongside **Chandon, Wansink, & Laurent**, details how these models have significantly reshaped traditional retail landscapes. By prioritizing flexibility and convenience over outright ownership, subscriptions have disrupted entrenched industries, forcing traditional retailers to adapt or face obsolescence. The shift from a transaction-based to a relationship-based economy fundamentally alters business models and competitive dynamics.

Lobato and **Simonson** provide granular insights into the profound shifts in media consumption, particularly evident in the rise of streaming services like Netflix and Spotify, which epitomize the subscription model. They delve into the psychological underpinnings of recurring payment adoption, exploring how the desire for seamless access, coupled with the illusion of "getting more for less," drives consumer behavior. This fundamental alteration in how content is accessed and consumed has far-reaching implications for creators, distributors, and consumers alike. Finally, **Davis** emphasizes the imperative for businesses to continuously adapt to dynamic consumer preferences in this rapidly evolving economic frontier. The

subscription economy is not static; it demands constant innovation, responsiveness to feedback, and a proactive approach to evolving consumer demands. Companies that fail to remain agile and attuned to changing expectations risk succumbing to subscription fatigue or being outmaneuvered by more adaptable competitors. The long-term viability of subscription models hinges on their ability to deliver sustained value and adapt to an increasingly discerning and saturated consumer landscape.

4. RESEARCH GAP

While much of the existing literature emphasizes the economic viability and retention strategies associated with subscription-based models, there remains a lack of comprehensive understanding of their psychological and behavioral impacts on consumers over the long term. Specifically, few studies explore the cumulative financial effects, emotional responses such as regret and frustration, or cultural and demographic differences in subscription adoption. This paper addresses these gaps by integrating quantitative and qualitative analyses to present a nuanced view of consumer experiences.

5. RESEARCH DESIGN

The study utilized a mixed-methods design. A quantitative survey involving 217 participants measured shifts in buying behavior, satisfaction, and perceived value. In-depth interviews with 20 individuals added qualitative depth by exploring emotional and cognitive responses to subscriptions. Quantitative data was analyzed using SPSS, while thematic analysis was applied to qualitative responses. This research leverages the Theory of Planned Behavior and insights from Behavioral Economics to explain how subscriptions influence decision-making. Major themes include control over behavior, consumer attitudes, and perceived social expectations. Psychological phenomena like loss aversion, anchoring, and the endowment effect also play significant roles.

5.1 Type of study

- Descriptive and analytical research design
- Cross-sectional study capturing data at a single point in time
- Mixed-methods approach combining quantitative and qualitative elements
- Correlational analysis examining relationships between key variables

5.2 Sources of Data

- **Primary data:** The researcher collects 217 personal data of streaming platform users in Bangalore through structured questionnaires and focused group discussions. Such firsthand information is specifically collected for deriving solutions to the research objectives about streaming service usage patterns and the subscriptions behaviour for the sake of relevance and specificity to the study.

5.3 Sampling Plan

- **Sampling unit:** Individual streaming subscription users living in the urban part of Bangalore who have actively used credit cards for at least one year.
- **Sample size:** There was a sample size of 217 respondents distributed proportionally by income to maximize representation.
- **Sampling technique:** Purposive sampling combined with snowball sampling to ensure that participants have different experience of using credit card.

5.4 Tools & Techniques of Data Collection

- **Survey:** Google form shared amongst the desired population.

6. DATA ANALYSIS AND FINDINGS

6.1 DATA ANALYSIS

Hypothesis 1: Comparative Gender-based Cancellation for Price Increases

Alternate Hypothesis (H1): There is a statistically significant difference in the association between gender and whether a user has canceled a subscription due to price increases when comparing Netflix users and Spotify users.

Null Hypothesis (H0): There is no significant difference in the association between gender and canceling a subscription due to price increases when comparing Netflix users and Spotify users.

Hypothesis 2: Comparative Entertainment Budget by Age Group for Streaming Service Users

Alternate Hypothesis (H1): The average monthly entertainment budget differs significantly across different age groups specifically among Netflix users and, separately, among Spotify users.

Null Hypothesis (H0): The average monthly entertainment budget is the same across all age groups for both Netflix users and Spotify users.

Hypothesis 3: Comparative Influence of Personalized Recommendations on Exclusive Content Subscription

Alternate Hypothesis (H1): The positive correlation between how much personalized recommendations influence content choices and how likely users are to subscribe to a new service for exclusive content is statistically different for Netflix users compared to Spotify users.

Null Hypothesis (H0): There is no statistically significant difference in the correlation between the influence of personalized recommendations and the likelihood of subscribing for exclusive content when comparing Netflix and Spotify users.

Hypothesis 4: Comparative Usage Frequency by Primary Subscription Reason

Alternate Hypothesis (H1): The frequency of using subscribed services varies significantly based on the primary reason for subscribing, and this variation differs when comparing Netflix users to Spotify users.

Null Hypothesis (H0): The distribution of service usage frequency based on the primary reason for subscribing is the same for Netflix users and Spotify users.

Hypothesis 5: Comparative Predictors of Willingness to Pay for Ad-Free Experience

Alternate Hypothesis (H1): The extent to which average monthly entertainment budget and the influence of personalized recommendations predict a user's willingness to pay extra for an ad-free experience differs significantly between Netflix users and Spotify users.

Null Hypothesis (H0): Average monthly entertainment budget and the influence of personalized recommendations predict the willingness to pay extra for an ad-free experience similarly for both Netflix and Spotify users.

Descriptive Statistics: Frequencies, percentages, means, and standard deviations will summarize the sample's demographics and key variable distributions.

Inferential Statistics for Comparative Analysis:

For Hypothesis 1: A Chi-Square Test of Independence will be performed separately for Netflix users and Spotify users, and the results will be compared to see if the association between gender and cancellation due to price increases differs between the two groups.

Hypothesis 1: Comparative Gender-based Cancellation for Price Increases

Test: Chi-Square Test of Independence

Service	Chi-Square Statistic	p-value	Degrees of Freedom (df)	Conclusion (at $\alpha = 0.05$)
Netflix	0.000	1.000	1	Not Significant
Spotify	0.000	1.000	1	Not Significant

For Hypothesis 2: A One-Way ANOVA will be conducted on the 'average monthly entertainment budget' across 'age groups' for Netflix users only and then separately for Spotify users only. The results (e.g., F-statistic, p-value, post-hoc tests) will be compared between the two groups.

Hypothesis 2: Comparative Entertainment Budget by Age Group for Streaming Service Users

Test: One-Way ANOVA

Service	F-statistic	p-value	Conclusion (at $\alpha = 0.05$)
Netflix	4.912	0.004	Significant
Spotify	8.750	0.000	Significant

For Hypothesis 3: Spearman's Rank Correlation Coefficient will be calculated for 'personalized recommendations influence' and 'likelihood to subscribe to new service for exclusive content' for Netflix users and then separately for Spotify users. The correlation coefficients and their significance will be compared.

Hypothesis 3: Comparative Influence of Personalized Recommendations on Exclusive Content Subscription

Test: Spearman's Rank Correlation Coefficient

Service	Correlation Coefficient (ρ)	p-value	Conclusion (at $\alpha = 0.05$)
Netflix	-0.261	0.028	Significant
Spotify	-0.197	0.288	Not Significant

For Hypothesis 4: Kruskal-Wallis H-test will be employed to compare the distributions of 'frequency of using subscribed services' across 'primary reasons for subscribing' for Netflix users and then separately for Spotify users. The outcomes will be compared.

Hypothesis 4: Comparative Usage Frequency by Primary Subscription Reason

Test: Kruskal-Wallis H-test

Service	H-statistic	p-value	Conclusion (at $\alpha = 0.05$)
Netflix	8.685	0.034	Significant
Spotify	11.407	0.010	Significant

For Hypothesis 5: Logistic Regression will be used to predict 'willingness to pay extra for an ad-free experience' based on 'average monthly entertainment budget' and 'personalized recommendations influence', performing this analysis separately for Netflix users and Spotify users. The regression coefficients, odds ratios, and model fit statistics will be compared between the two service user groups.

Model Fit Summary

Metric	Netflix Only Users	Spotify Only Users
No. of Observations	71	31
Pseudo R-squared	0.0283	0.0107
LLR p-value	0.2879	0.8115
Conclusion	No significant predictors	No significant predictors

All statistical analyses will be performed using appropriate software (e.g., Python with SciPy/Pandas). A significance level (α) of 0.05 will be used.

6.2 FINDINGS

A notable difference emerged concerning the influence of personalized recommendations on the likelihood of subscribing to a new service for exclusive content. For Netflix users, there was a significant negative correlation, meaning that as they perceived recommendations as more influential, they were less likely to seek out new services for exclusive content. However, for Spotify users, no such significant correlation was found.

Furthermore, for both Netflix and Spotify users, the frequency of using their subscribed services varied significantly based on their primary reason for subscribing. This highlights that a user's initial motivation plays a crucial role in how often they engage with their chosen platform.

Finally, in analyzing willingness to pay for an ad-free experience, neither average monthly entertainment budget nor the perceived influence of personalized recommendations were found to be statistically significant predictors for either Netflix or Spotify users. This suggests that other factors, beyond these two, might drive the decision to pay for an ad-free tier.

For users of both Netflix and Spotify, there was no statistically significant association between gender and their decision to cancel a subscription due to price increases. This suggests that for these services, price sensitivity leading to cancellation isn't significantly tied to gender.

Across both Netflix and Spotify user bases, the average monthly entertainment budget showed a statistically significant difference across various age groups. This indicates a consistent pattern where spending on entertainment subscriptions varies with a user's age, irrespective of the specific streaming platform.

7. CONCLUSION AND SUGGESTIONS

7.1 CONCLUSION

This comparative study sheds light on the differential impact of subscription-based models on consumer behavior for Netflix and Spotify. We found consistent patterns in how age groups influence entertainment budgets and how primary subscription reasons drive usage frequency across both platforms. However, a notable divergence emerged regarding the influence of personalized recommendations on a user's likelihood to seek out new services for exclusive content: Netflix users seem to be more "contained" by effective recommendations, whereas Spotify users do not exhibit this specific behavior. Furthermore, common assumptions that entertainment budget or recommendation influence would strongly predict willingness to pay for an ad-free experience were not supported by this dataset for either service.

These findings suggest that while there are universal aspects of consumer behavior in the subscription economy, the specific nature of the content (video vs. audio) and the maturity of the platform's personalization can lead to distinct behavioral patterns. Both Netflix and

Spotify can leverage these insights to refine their strategies for content curation, user engagement, pricing, and premium tier offerings, ultimately aiming to enhance user satisfaction and foster long-term loyalty in a highly competitive market.

7.2 SUGGESTIONS

For Netflix:

1. **Leverage Personalized Recommendations for Retention:** Given the significant negative correlation found in Hypothesis 3, Netflix should continue to invest heavily in and highlight the effectiveness of its personalized recommendation algorithms. Satisfied users are less likely to look elsewhere. Marketing efforts could emphasize how Netflix's tailored content selection eliminates the need to seek out new services for unique content.
2. **Deepen Content Exclusivity:** To reinforce the "walled garden" effect, Netflix should continue to focus on creating and acquiring high-quality exclusive content that is not available elsewhere. This aligns with users who are highly influenced by recommendations and less likely to subscribe to new services.
3. **Targeted Engagement based on Subscription Reason:** Explore personalized campaigns or content curation based on the user's initial primary reason for subscribing (from Hypothesis 4). For example, users primarily seeking "Access to exclusive content" could be highlighted new originals, while those valuing "Convenience" might be shown features that streamline their viewing experience.

For Spotify:

1. **Re-evaluate Personalization's Role in New Subscriptions:** Unlike Netflix, Spotify's personalized recommendations do not seem to significantly influence a user's likelihood to subscribe to *new* services for exclusive content. Spotify could investigate *why* this relationship is not significant. Is it due to the nature of music consumption (less "exclusive" content driving new subscriptions compared to video)? Or could there be ways to make recommendations *more* influential in fostering loyalty and reducing the desire to explore competitor music services for specific artists/tracks?
2. **Focus on Value Proposition beyond Ad-Free:** Since entertainment budget and recommendation influence weren't significant predictors for willingness to pay for ad-free, Spotify should explore other drivers for premium upgrades. This could include emphasizing audio quality, offline listening, or specific user experience enhancements that directly address pain points for free-tier users, rather than solely relying on ads as

the primary differentiator.

3. **Optimize User Experience based on Usage Patterns:** Similar to Netflix, Spotify can use the insight from Hypothesis 4 to tailor features and user journeys based on the
4. user's primary subscription reason. For example, if "Ad-free experience" is a reason, ensure the premium upgrade path is seamless and clearly communicates the value. If "Cost savings" is a reason, perhaps offer tiered subscription options.

General Suggestions for Both Platforms:

1. **Age-Group Specific Budgeting:** Both services should continue to tailor their marketing and potential pricing strategies to different age groups, recognizing the significant variation in entertainment budgets across these demographics. This could involve student discounts, family plans, or premium tiers for older, higher-earning demographics.
2. **Understand Nuances of Price Sensitivity:** While gender wasn't a factor, the consistent finding that price increases lead to cancellations means both platforms need to carefully manage pricing strategies. Understanding other factors that drive price sensitivity (e.g., perceived value, content library depth, unique features) is critical for retention.
3. **Diversify Ad-Free Monetization Strategies:** Since the tested variables didn't predict

willingness to pay for ad-free, both companies should delve deeper into consumer psychology regarding ad tolerance and premium features. This might involve surveying users directly about their top reasons for considering or avoiding an ad-free upgrade, or testing different value propositions for premium tiers.

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