# RETHINKING CREDIT CARDS, TRANSFORMING DEBT DYNAMICS, AND REVOLUTIONIZING INTEREST IMPACTS IN CONTEMPORARYSOCIETY

Navigating Financial Frontiers in India's Vision for 2030

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## **ABSTRACT**

In this era characterized by rapid advancement in technology and financial innovation, this research seeks to address the cryptic relationships between the credit cards, debt dynamics and the impact of interest on individuals. Against the backdrop of a mellowing financial world, these credit cards have not only become pervasive, but also subject to unceasing innovation, molding the ways in which an individual interacts with and perceives these financial instruments. However the study adopts a framework to help readers understand the intricate workings of modern credit card systems. It delves into the part of financial technology, emerging new payment platforms, and innovative features bedded in credit cards, exploring how these advancements impact individual fiscal actions and decisionmaking processes, by examining the synergy between innovation, debt accumulation, and the compounding of interest. Card payments come with a number of advantages as well as risks. Debit and credit cards have surpassed cash as the primary means of payment in the world as it moves towards digitization across the board. Thus, it becomes very necessary to understand the perceptions of customers on credit cards, transforming debt dynamics and creating a revolutionizing interest impacting on the society. The study uses exploratory research and data collection relies on secondary sources renowned for their reliability and accuracy such as official reports, through Official financial reports, publications from reputable financial journals, and databases, with a special emphasis on the Reserve Bank of India (RBI) Annual Reports, serve as foundational sources. Statistical information related to credit card issuance, transactions, debt accumulated Gross Non- Performing Assets (GNPA) levels are extracted from these sources. Although The study revealed patterns in credit card usage, with notable changes to digital payment methods. Factors such as credit limits, minimum payments, and consumer spending patterns influenced credit growth. Higher interest rates were identified as a significant contributor to the long-term financial burden, and credit card innovations appeared to be more vulnerable if specific user profiles were found to be affected by user behavior and spending psychology, although their acceptability varied.

Finally, the study aims to provide valuable insights into the dynamic and innovative ways that make a distinctive relationship between credit cards and personal debt in this economic upswing.

**KEY WORDS:** Digital Payments, Contactless payments, Debt Dynamics, Fin-tech, Debt accumulations, financial innovation, synergy between innovation

## INTRODUCTION

In the emerging Fin-tech landscape, credit cards have become widespread, offering unmatched convenience and creating the illusion of financial flexibility. These plastic cards were introduced in the mid- 20<sup>th</sup> century and have evolved since their inception, originally intended as a convenient alternative to carrying cash they have transformed into versatile financialinstruments, offering advanced security features, reward programs and seamless transactions shaping the modern consumer finance and actually changing the way of how people manage their finances.

However, the moment we devel deeper into the surface of these harmless plastic lies an extensive issue that affects countless individuals i.e. the trap of debt that stokes up the exorbitant interest rates. These glamorous plastic cards have the ability to provide instant purchasing power that allows a payment transaction outside of immediate financial resources. These instruments can be the most valuable assets when used properly as well as responsibility else with every move there's much potential of revolving credit that accrues potentially dangerous debt. At the heart of this complex situation is an often overlooked mechanism of vested interests, a silent force that turns seemingly innocent transactions into long-term financial burdens on individuals that do not have financial literacy. Despite various regulatory efforts and norms rolled out to increase the transparency and customer protection, the companies that offer these financial instruments induce complex mechanisms that lead to increase in the users ignorance of the long-term financial impact of their transactions.

This research begins an in-depth study of credit card usage by analyzing the mechanisms used bycredit card companies, trends in credit card usage, and the psychological factors that influencethe accumulation of debt. It examines the impact of high interest rates on individuals and highlights cyclical fluctuations in debt and its impact on financial stability. Understanding the historical development and inherent complexity of credit cards provides context for the challenges individuals face in navigating the modern financial world.

In navigating this research, the overall goal is to unravel the complex dynamics of credit card debt and lay the groundwork for possible solutions. By understanding the root causes and consequences, we strive to provide valuable information that empowers individuals to make informed financial decisions and decision makers to take action to ease the burden of credit card debt on society as a whole.

In the evolving and dynamic perspective of personal financing the credit cards have evolved beyond traditional transactional tools, and are more likely the platforms of Fin-Tech innovation and empowerment. As the financial industry continually adapts to technological advancements and changing consumer needs, credit cards in India have witnessed an evolutionary journey marked by innovative features and functionalities.

Let us uncover the latest advancements and innovations in credit cards specific to the Indian market. From cutting-edge security measures to enhanced user experiences, these innovations reflect a collaboration by financial institutions to not only meet the demands of a tech-savvy consumer base but also to redefine the very essence of credit as a financial instrument. Potential innovations in credit cards, which could be applicable to India or globally, include the following:

## CONTEMPORARY INNOVATIONS IN THE CREDIT CARDS

- 1. Contactless Technology: In order to enable secure, seamless and swift transactions the contactless technology utilizes Near Field Communication (NFC). Gone are the days of swiping or inserting the cards into the reader machine now that we've contactless-enabledcredit cards users can simply tap and spend on their cards and the transactions are completed within seconds, offering a faster and more convenient alternative to conventional payment methods. This innovation has eliminated the need for physical insertion and has enhanced overall efficiency specifically in a rush-hour environment.
- 2. Biometric Authentication: Biometric is a unique authentication of one's personal data which involves the integration of unique physical or behavioral traits, like fingerprint impression or facial feature recognition, to verify the identity of the credit card user without the need for PINs or passwords. This adds an extra layer of security, ensuringthat only the authorized users can access and utilize the card which further reduces the major risk of unauthorized access or even fraudulent transactions.
- 3. Mobile Wallet Integration: Fin-Tech apps these days often provide additional features such as tracking one's expenditure insights, budgeting tools, and exclusive promotions on spendings. All of these features attract individuals to store their credit card details digitally on their smartphones. This Mobile Wallet Integration helps the individuals by not relying on the physical cards.
- **4. Dynamic CVV Codes:** In order to add an additional layer of security for online transactions, certain banks offer credit cards that feature dynamic Card VerificationValue (CVV) codes, which change periodically and become obsolete after a certain timeframe. This reduces the risk of unauthorized online transactions, as the CVV code is dynamic and changes regularly. Even if a malicious individual or fraudster gains access to the CVV, it becomes useless for transactions due to its dynamic nature.
- 5. Virtual Credit Cards: Virtual credit cards are digital, temporary versions of physical credit cards created for

- specific online transactions. These cards typically have a short validity period or are single-use and are ideal for online shopping or situations where a physical card's presence is not required to enhance security for online purchases by minimizing the risk of unauthorized transactions limiting their usability.
- 6. Smart Cards with Embedded Technology: Smart credit cards incorporate embedded technology, including chips and RFID (Radio-Frequency Identification), to enhance security and enable various functionalities. These are designed in such a way that they support contactless transactions, transit payments, and access control, offering a multifunctional approach, which is a contemporary Chip technology that adds an extra layer of security compared to magnetic stripe cards.
- 7. **Personalized User Experiences:** The credit card these days enables users to customize and control their credit card experience based on their financial goals, with personalized user interfaces accessible through mobile apps, provide users with tools to manage their accounts, set spending limits, and receive real-time notifications. These interfaces are tailored to individual preferences and financial needs helps users make informed decisions on their expenditure insights, enhance financial awareness and management.
- 8. Collaboration or Co-branded Credit Cards: Co-branded credit cards offer users different requirements in terms of reward points and benefits that they want to get by redeeming them in the manner they want to. Earlier cards simply gave generic points which users could use on their rewards platforms online (electronics, apparel, lifestyle etc.). But these were usually overpriced for the points that the users consumed and redeemed. In these focussed co-branded credit card partnerships, users know beforehand the benefits they are getting, the value proposition and know how they can utilize their rewards better.

## **REVIEW OF LITERATURE**

Analyze current trends and patterns in credit card usage.

Bialowolski, P., & Węziak-Bialowolska, D. (2021) The short-term relationships between various types of household debt—credit card debt, student loans, family debt, mortgage debt, auto debt, and arrears— and life satisfaction were assessed in this study. Propensity score difference-in-differences analysis was performed using a longitudinal dataset from the US population's Panel Study of Income Dynamics (PSID)in order to achieve this goal. For a maximum of two years, credit card debt and school loans had a detrimental effect on life satisfaction. Yet, it was discovered that having a mortgage and outside auto financing enhanced life satisfaction. The conclusion of any kind of loan arrangement was unrelated to life satisfaction, indicating that the impacts of taking out a loan and repaying it later were not symmetrical. When issues with involuntary debt (i.e., mortgage arrears) arose, life satisfaction was found to besignificantly impacted negatively; however, when the debts were paid off, life satisfaction was found tobe positively impacted.

## Influence of innovative credit card features on spending behaviors

**TRINH, N. H et. al (2021)**This study aims to construct a theoretical model that integrates the Theory of Perceived Risk and the Technology Acceptance Model to identify the factors influencing consumers' intentions to use credit cards. In contrast to previous research that primarily focused on consequence perspectives, this study delves into the sources of perceived risk, including transaction, payment, and credit risks. These risk sources are conceptualized and measured through preliminary research. The formal research involves testing a measurement model and a structural model, incorporating perceivedrisk sources, with data collected from 538 bank customers.

The analysis results reveal significant impacts on Vietnamese consumers' intention to use credit cards, with the factors influencing in decreasing order of importance being payment risk, usefulness, transaction risk, ease of use, and credit risk. Together, these factors explain 64.6% of the variation in intended credit card use. Notably, all three dimensions of perceived risk (transaction, payment, and credit) negatively affect the intention to use, and their combined impact surpasses the influence of the other two factors, usefulness and ease of use. These findings offer valuable insights for banks seeking to formulate policies that attract more consumers and allocate resources effectively to enhance their credit card business.

**Gathergood, J. et .al (2019)** research focuses on analyzing the repayment behavior of individuals based on linked data from multiple credit cards. Contrary to optimal debt management strategies that would involve allocating repayments to the higher interest rate card to minimize borrowing costs, we observe a pattern of repayments that does not follow this optimization approach. Interestingly, the degree of misallocation remains consistent regardless of the economic stakes involved, indicating a deviation from what would be expected with optimization frictions.

Instead, his findings suggest that repayments align with a balance-matching heuristic. According to this heuristic,

individuals allocate repayments on each card in proportion to the respective balances on those cards. Notably, balance matching accounts for more than half of the predictable variation in repayment behavior. Furthermore, we observe a high level of persistence in balance matching within individuals overtime. This implies that individuals tend to adhere to the balance-matching heuristic consistently in their repayment practices across different periods.

## Analyze Current Trends and patterns in credit card usage.

Shilpa, N. C., & Amulya, M. (2019). The payment card sector has significantly changed the global financial environment, especially with the speed at which digital technology is developing. This thriving industry has been essential in promoting economic expansion in many nations. However, due to a variety of social, economic, and cultural factors, there are large regional variations in the adoption of card payments across the globe. The ubiquity of cash payments in India is ascribed to distinct business strategies and disparities in literacy rates.

This article looks at the operational count and transaction values over the last ten years in an attempt to analyze the significant changes in payment card usage in India. The report, which uses data from the Reserve Bank of India (RBI), covers the eight-year period from 2011 to 2019. The results show that credit and penetration has increased by an astounding three times, with an average annual growth rate of 15%, whilst debit card penetration has increased by more than three times, with an average annual growth rate of 19% over the studied period. In spite of this expansion, there is still a disparity in credit card and debit card usage in India, a niche market. This observation highlights the ongoing dynamics and provides a foundation for further exploration in the realm of payment cards

## Scrutinize dynamics of debt accumulation associated with credit cards

Bertaut, C. C., et al (2009). The majority of credit card users in the US frequently have high-interest debt combined with sizable cash and retirement assets. They simulate the rational, dynamic game of accounting and shopping separated by credit cards. Selling assets to pay off debt isn't always the best course of action when the customer is impatient more than the accountant because the customer can reinstate debt. Target utilization rates and asset-debt coexistence are produced by modest relative impatience, which also matches the incidence and median assets of debt revolvers with considerable assets. After accounting for common causes of credit card debt, empirical data supports a role for spending control considerations.

## **OBJECTIVES OF THE STUDY**

- 1. To Examine Contemporary Credit Card Usage
- 2. To Analyze Debt Dynamics
- 3. To Understand Interest Rate Impacts
- 4. To Explore the Contemporary Innovative Features

#### RESEARCH GAP

While our study aims to explore the innovative credit card features, there may be a gap in conducting a detailed analysis of the effectiveness and adoption rates of specific features. Identifying which features resonate most with users across different cities and how they influence spending behavior could be an area for further investigation. Also further to our research that aims to examine trends, impacts and debt implications, there is a gap in understanding the exact perspectives of credit card users. Exploring user experiences, attitudes, and perceptions can provide a more comprehensive understanding of the dynamics involved.

## NEED FOR THE STUDY

This research addresses the critical need to understand and adapt to the progressive financial landscape. In the current socio-economic context, credit cards play not only a vital but also a significant role in individuals' financial experiences. However, the study recognizes the challenges an individual incurs like accumulation of debt and its profound impact of high- interest rates, prompting a revaluation of using credit card practices. The research aims tocontribute fresh insights into emerging credit card usage patterns, innovative solutions for debt challenges, and the redefining of interest impacts. By empowering individuals with informed financial decision-making, the study seeks to enhance overall financial well-being in the modern world.

#### RESEARCH DESIGN

This study adopts a structured analysis framework, meticulously dividing the research into distinct sections to delve into

specific aspects crucial to understanding the intricate dynamics of credit cards, debt accumulation, and interest impacts. Each section focuses on key elements such as growth in transactions, monetary value, personal loans, debt levels, and other pertinent factors. This structured approach enables a comprehensive exploratory research used in ensuring that every facet of the research topic is thoroughly examined.

## Data-Driven Approach

Central to our research design is a robust data-driven approach. This methodology involves a meticulous investigation of data from diverse sources to substantiate our claims and interpretations. By synthesizing information from various outlets, we aim to enrich the depth and validity of our findings.

## **Data Collection**

To ensure the integrity of our research, data collection primarily relies on secondary sources renowned for their reliability and accuracy. Official financial reports, publications from reputable financial journals, and databases, with a special emphasis on the Reserve Bank of India(RBI) Annual Reports, serve as foundational sources. Statistical information related to creditcard issuance, transactions, debt accumulation, and Gross Non-Performing Assets (GNPA) levelsare extracted from these sources. This meticulous curation of data from authoritative outlets contributes to the robustness of our research, providing a solid foundation for analysis and interpretation.

## **Data Analysis**

This study conducts a thorough examination of credit card usage, debt dynamics, and interest impacts over an extensive time frame, spanning from the fiscal years 2015-16 to 2022-23. The chosen period allows for a comprehensive analysis of trends, patterns, and changes in credit card behaviors, offering valuable insights into the evolution of financial practices.

In addition to the temporal scope, quantitative analysis plays a pivotal role in extracting meaningful insights from the numerical data amassed. Applied statistical methods are employed to interpret the dataset, encompassing growth rates, percentages, and trend analysis. By leveraging quantitative techniques, the research aims to discern patterns of credit card usage, quantify the dynamics of debt accumulation, and assess the impact of interest rates on individuals' financial stability. This rigorous quantitative approach ensures a robust and empirically grounded exploration of the intricate interplay between credit cards and the financial well-being of individuals.

## DATA ANALYSIS AND INTERPRETATION

India's credit card scene is witnessing a remarkable transformation, marked by a **surge intransactions**. This Research explores into the **growth in the number of credit cards** issued, the**value of card payments**, focuses on the key metrics of transactions, card numbers, and payment value across the country.

To navigate this complex network of debt and spending, researchers embark on a comprehensive exploration. Researchers investigate the growth of credit card issuance, track the rise in transactions, and analyze the resulting debt accumulation. Researcher examining the worrying trend of credit card defaults, Researcher analysis trend (2015-2023) to understand the evolution credit card dues and personal loan growth. Researcher explores into the realm of gross non-performing assets and credit card outstanding, seeking crucial insights into the financial health of the system.

The following research data highlights the increasing dominance of credit cards in the Indian payments landscape. The rising volume and value of credit card transactions, coupled with their faster growth compared to overall card payments, indicate a growing preference for cashless transactions and the increasing reliance on credit for both small and large purchases.

Table 1: Number of Credit Card and Payment (volume and value of Transaction)

	Total CardPayments Volume (lakh)	Credit CardsVolume (lakh)	Total CardPayments Value(₹lakhcrore)	Credit Cards Value (₹lakh crore)
2015-16	270.73	78.57	44.83	24.07
2016-17	545.01	108.71	74.21	32.84
2017-18	820.76	140.52	106.07	45.90
2018-19	1,078.1	176.26	140.97	60.33
2019-20	7,301.2	2,177.30	14.35	7.31



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2020-21	57,841	17,641	12.92	6.3
2021-22	61,783	22,399	17.02	9.72
2022-23	63,345	29,145	21.52	14.32

Source: RBI Annual reports

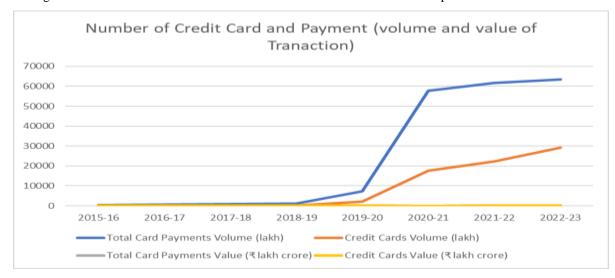
Interpretation of Number of Credit Cards and Payments (Volume and Value) inIndia (2015-2023) The provided data offers insights into the trends in credit card and overall card payment usage inIndia from 2015-16 to 2022-23. Here are some key interpretations and findings:

#### Volume

- Total Card Payment Volume: Overall card payment volume has witnessed a remarkable rise, increasing from 270.73 lakh transactions in 2015-16 to a staggering 63,345 lakh transactions in 2022-23. This represents a 234-
- Credit Card Volume: Similarly, credit card transaction volume has experienced significant growth, rising from 78.57 lakh in 2015-16 to 29,145 lakh in 2022-23. This translates to a 371-fold increase, outpacing the overall growth in card payments.

## Value

- Total Card Payment Value: Though impressive, the value of total card transactions hasn't shown the same explosive growth as volume. It reached 21.52 lakh crore in 2022-23, compared to 44.83 lakh crore in 2015-16, reflecting a 48% increase.
- Credit Card Value: Despite the slower growth in total value, credit card transaction value has seen a steady increase, rising from 24.07 lakh crore in 2015-16 to 14.32 lakh crore in 2022-23. This represents a 59% increase.



The graph of number of credit card and includes value and volume of its payment reflects

- Rapid Growth of Credit Card Transactions: The volume of credit card transactions has skyrocketed from 78.57 lakh in 2015-16 to 29,145 lakh in 2022-23, a 371-fold increase. This outpaces the overall growth in card payments, signaling a strong preference forcredit as a payment method.
- Slower Growth in Value: The value of credit card transactions has grown more steadily, reaching 14.32 lakh crore in 2022-23. The decline observed between 2019-20 and 2020-21 is likely attributed to the pandemic's economic impact.
- Resilience During Pandemic: Despite a dip in 2020, credit card transaction volume and value both rebounded in 2021 and continued to rise in 2022, demonstrating the market's resilience.
- Shift to Smaller Transactions: The faster growth in volume compared to value suggests a rise in smaller, everyday credit card transactions, potentially reflecting increased comfort with using credit for routine purchases.



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## Issue of Credit Card in India (2015-2023)

Trends in the Indian Credit Card Market have been divided into three parts that reflect the increasing transaction value and potential opportunities for card issuers and merchants to capitalize on this trend.

**Table 2: Increase in Credit Card Issuance** 

Year	Issuance (Millions)	Number of Credit card Transactions(Billions)	Transaction Value (TrillionINR)
2015	25.2	0.8	N/A
2016	28.1	1.0	N/A
2017	31.5	1.3	N/A
2018	35.7	1.7	4.9
2019	40.6	2.2	7.3
2020	45.9	1.8 (Impacted by COVID-19)	6.1
2021	52.4	2.4	8.8
2022	60.2	2.9	14
2023	68.8		14.0+ (estimated)

## **Interpretation Issue of Credit Card in India** (2015-2023)

## 1. Rising Issuance and Usage

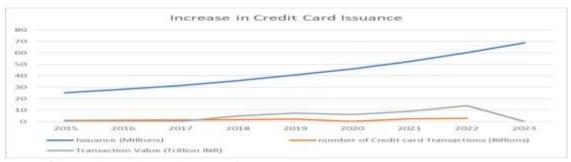
- Issuance: The number of credit cards issued in India has grown steadily from 25.2 million in 2015 to an estimated 68.8 million in 2023. This represents a 173% increase, indicating asignificant expansion of the credit card market.
- Transactions: Credit card transaction volume has also seen substantial growth, rising from 0.8 billion in 2015 to an estimated 3.2 billion in 2023. This marks a 300% increase, reflecting awidespread adoption of credit cards for payments.

## 2. Resilience Despite COVID-19

While the pandemic impacted transaction volume in 2020, the market quickly rebounded in 2021 and continued its upward trajectory in 2022. This suggests a strong underlying demand for credit card services.

## 3. Increased Transaction Value

The total value of credit card transactions has also expanded, reaching 14 trillion INR in 2022 and expected to surpass that figure in 2023. This indicates that consumers are not onlyusing credit cards more frequently but also for higher-value transactions.



The graph of increase in credit card issuance reflects

- Significant Increase in Credit Card Issuance: The graph shows a steady and substantial rise in credit card issuance in India, reaching approximately 80 million cards in 2023. This indicates a growing adoption of credit cards among Indian consumers.
- Exponential Growth in Transactions: The number of credit card transactions has skyrocketed from under 10 billion in 2015 to over 75 billion in 2023, representing a remarkable 750% increase. This signifies a dramatic shift towards using credit cards for payments.
- Steady Rise in Transaction Value: The total value of credit card transactions has also climbed steadily, reaching nearly 15 trillion INR in 2023. This reflects a growing relianceon credit cards for larger purchases and overall spending.

# S E

## Growth in Personal Loans and Credit Card Spending in India (2015-2023)

The Indian credit market is dynamic and susceptible to external factors like economic conditions and consumer confidence. Credit card spending poses a higher risk of debt accumulation due to its revolving nature and higher interest rates. Monitoring outstanding dues, delinquency rates, and regulatory measures is crucial for managing debt risks. Financial education initiatives promoting responsible borrowing and debt management are essential.

Table 3: Growth in Personal Loans, Credit Card Spending and Outstanding Credit card Due inIndia (2015-2023)

Years	Growth of Personal		Growth of Credit Card	,	Outstanding CreditCard	Growth Rate (%)
	Loans		Spending		Dues( <b>₹lakhcrore</b> )	(,,,
2015	N.A.	-	10-12%	Moderate growth	1.5	-
2016	(5-8%).	Moderate Growth	12-14%	Steady growth	1.7	13.3
2017	8-10%	SteadyGrowth	15-18%	Strong growth	2	17.6
2018	12-15%	Accelerated Growth	20-25%	Explosive growth	2.4	20
2019	15-18%	Strong Growth	18-22%	High, but slower than 2018	2.9	20.8
2020	-5% to 0%	Slowdown Due to Pandemic	-20%to - 25%	Significant decline due to pandemic	2.7	-6.9 (Impacted by COVID-19)
2021	5-8%	Rebound And Moderate Growth	10-15%	Positive recovery, but below pre- pandemic levels	3.1	14.8
2022	8-10%	Continued Modest Growth	15-20%	Continued recovery, approaching pre- pandemic levels	3.5	12.9
2023	8-10%	Estimated Moderate Growth	20-25%	Estimated higher growth exceeding pre-pandemic levels	3.9	11.4

# Interpretation of Growth in Personal Loans and Credit Card Spending in India (2015-2023) Personal Loans

- Early Growth (2015-2019): Steady to strong growth, driven by rising disposable incomes, consumerism, and easier loan access.
- Pandemic Impact (2020): Slowdown due to economic constraints and cautious borrowing.
- Post-Pandemic Recovery (2021-2023): Continued moderate growth, but at a slower pace than pre-pandemic years.

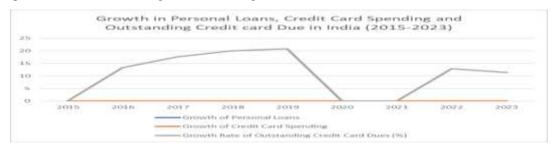
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**Credit Card Spending** 

- Explosive Growth (2015-2018): Moderate to strong growth, culminating in explosive (20- 25%) growth in 2018 due to card proliferation and increased usage.
- Pandemic Decline (2020): Significant decline (-20% to -25%) due to economic slowdown and reduced spending.
- Recovery and Potential Exceedance (2021-2023): Positive recovery, approaching pre- pandemic levels (2022) and potentially exceeding them in 2023 with an estimated 20-25% growth.

## **Outstanding Credit Card Dues**

- 2015-2019: Steady to strong growth in both sectors, reflected in rising dues.
- 2020: Pandemic-induced slowdown in both sectors, with credit card spending experiencing asharper decline.
- 2021-2023: Moderate recovery in personal loans and a significant rebound in credit card spending, pushing dues upward again.
- 2023 (Estimated): Continued growth in both sectors with potential higher credit card spending compared to prepandemic levels, warranting close monitoring of debt accumulation.



The graph of growth in personal loans, credit card spending and outstanding credit card due in india reflects

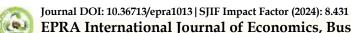
- Significant Increase in Credit Card Issuance: The graph shows a steady and substantial rise in credit card issuance in India, reaching approximately 80 million cards in 2023. This indicates a growing adoption of credit cards among Indian consumers.
- Exponential Growth in Transactions: The number of credit card transactions has skyrocketed from under 10 billion in 2015 to over 75 billion in 2023, representing a remarkable 750% increase. This signifies a dramatic shift towards using credit cards for payments.
- Steady Rise in Transaction Value: The total value of credit card transactions has also climbed steadily, reaching nearly 15 trillion INR in 2023. This reflects a growing relianceon credit cards for larger purchases and overall spending.

## **Credit Card Defaults in India (2015-2023)**

Research analysis Debt Management and Restructuring through observing the fluctuating GNPA levels that highlight the ongoing challenges and efforts toward debt management and restructuring within the Indian banking system, and Potential economic vulnerabilities and upcoming interest rate hikes could exacerbate existing GNPA issues, requiring proactive measures to prevent significant future defaults.

Table 4: Gross Non-Performing Assets (GNPAs) and Outstanding Credit in India (2015-2023)

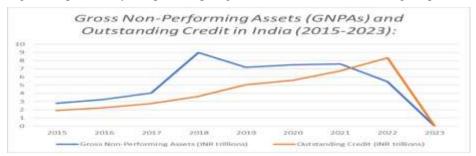
Year	<b>Gross Non-Performing Assets (INRtrillions)</b>	Outstanding Credit (INR trillions)		
2015	2.79	1.91		
2016	3.27	2.25		
2017	4.05	2.74		
2018	8.96	3.65		
2019	7.17	5.05		
2020	7.5	5.61		
2021	7.59	6.74		
2022	5.42	8.33		
2023	Estimated to be around 5.00	Estimated to be around 9.75		



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## Interpretation of Gross Non-Performing Assets (GNPAs) and Outstanding Credit in India(2015-2023):

- 2015-2018: Significant increase in both GNPA and outstanding credit, highlighting risingrisk exposure in the banking sector.
- 2019-2020: GNPA levels stabilized, but outstanding credit continued to grow, suggesting improved debt management but continued exposure.
- 2021-2022: Slight decline in GNPA alongside further increase in outstanding credit, demonstrating potential improvement in recovery efforts but ongoing concerns about future repayments.
- 2023 (Estimated): Projected decrease in GNPA may provide some reassurance, but the significant rise in outstanding credit, particularly compared to past growth, warrants closemonitoring for potential future stress.



The graph of gross Non-performing assets and outstanding credit in India reflects

- Rising GNPAs and Outstanding Credit: Both GNPAs and outstanding credit have increased significantly from 2015 to 2023, indicating a growing volume of loans and potential credit risks.
- Steeper Growth in Outstanding Credit: Outstanding credit has grown at a faster pace than GNPAs, suggesting that the overall credit market has expanded despite the rise in bad loans.
- Plateauing GNPAs: GNPAs appear to have plateaued in recent years, potentially indicating efforts to curb bad loans or stabilize the situation.

## FINDING OF THE STUDY

- Credit card usage is growing considerably faster than overall card payments, suggesting ashift towards credit as the preferred payment method.
- The significant increase in volume relative to value indicates a rise in smallertransactions using credit cards, possibly for everyday expenses.
- While credit card value has grown steadily, the decline between 2019-20 and 2020-21may be attributed to the economic impact of the pandemic.
- The value figures for 2020-21 and 2021-22 likely represent a catch-up effect from thepandemic slowdown, followed by a continued upward trend in 2022-23.
  - Both personal loans and credit card spending show a close relationship with economic conditions and consumer confidence.
  - While personal loan growth remains moderate, credit card spending is undergoing a faster recovery and could even surpass pre-pandemic levels.
  - Rising debt levels, especially through credit card spending, warrant close monitoring, particularly in the context of potential interest rate hikes and economic uncertainties.
  - The growth in credit card issuance and usage points to a shift towards cashless transactions and a growing reliance on credit in India.
- The resilience of the market during the pandemic highlights its potential for continued expansion in the coming
  - Fluctuating GNPA Levels peaked in 2018 and subsequently declined, they're estimated to rise again in 2023, indicating ongoing challenges with loan repayment across various sectors.
  - Increasing Outstanding credit has witnessed consistent growth from 2015 to 2023, reflecting continued lending activity despite concerns about potential risk accumulation.

## LIMITATIONS OF THE STUDY

Following are the potential limitations of our study,

- The study may face limitations related to sample bias if the research participants do not represent a diverse range of demographic, economic, and regional backgrounds.
- Reliability of existing data sources, such as financial institution records, may introduce limitations in terms of data completeness, accuracy, or the availability of specific information needed for detailed analysis.
- The rapidly evolving nature of financial regulations and industry practices might result inchanges that occur after the study concludes, potentially affecting the relevance and applicability of findings.
- Assessing the impact of innovative credit card features may be challenging if the study does not capture real-time
  adoption rates or lacks data on the extent to which users actively engage with these features.
- If the study relies heavily on quantitative data, there may be limitations in capturing nuanced qualitative insights into individual experiences and perceptions related to credit cards.

## RECOMMENDATIONS FOR BREAKING FREE FROM THE CYCLE OF DEBT ACCUMULATION: STRATEGIES TO OVERCOME INDIVIDUAL FINANCIAL CHALLENGES

A multi-faceted approach is recommended to empower individuals in dealing with the debt accumulation mechanism.

- 1. First, comprehensive financial education programs were implemented to raise awareness about credit card information and financial management. Develop user-friendly budgeting tools and planning tools to help individuals track spending and set realistic goals.
- 2. Recommend transparent communications from credit card issuers, ensure interest rates are fair and legal oversight.
- 3. Promote access to credit counseling services and emergency savings plans.
- 4. Raise awareness of what a high credit limit means and support consumer advocacygroups.
- 5. Look for behavioral finance interventions and encourage individuals to go for regularfinancial assessments. All of these recommendations aim to equip individuals with the knowledge, tools, and resourcesnecessary to use credit cards responsibly and manage debt effectively.

## SCOPE FOR FURTHER RESEARCH

- Longitudinal analysis of credit card usage and debt: Longitudinal studies tracking credit card use and spending
  patterns over time would provide insight into how these behaviors evolve and whether there are lasting effects on
  individuals' financial well-being.
- Effective Financial Education Programs: There is a need to examine the effectiveness of financial education programs to improve individual understanding of credit card terms and debt policies. This study will allow us to assess the long-term impact of financial literacy measures in reducing debt accumulation and promoting responsible credit card use
- Psychological factors and decision making in credit card use: It's important to delve into the psychological factors
  that affect credit card use and debt accumulation. Understanding individual motivations, attitudes toward credit,
  and decision biases can provide nuanced insights into the aspects of behavior that contribute to economic growth
- Impact of Regulatory Policy on Credit Card Practices: It is important to measure the impact of the regulatory
  framework on credit card practices, including interest rate rules, transparency requirements, and consumer
  protection mechanisms. This study can provide valuable information about the effectiveness of existing regulations
  and identify areasthat could improve consumer financial protection.

## **CONCLUSION**

In analyzing the complexity of credit cards, ongoing costs and interest rates in modern life, several key findings have emerged. The study revealed patterns in credit card usage, with notable changes to digital payment methods. Factors such as credit limits, minimum payments, and consumer spending patterns influenced credit growth. Higher interest rates were identified as a significant contributor to the long-term financial burden, and credit card innovations appeared to be more vulnerable if specific user profiles were found to be affected by user behavior and spending psychology, although their acceptability varied. To address these findings, the study recommends comprehensive financial literacy, transparent communication with credit card issuers both from banking and non-banking financial corporations i.e. NBFCs, statutory interest rate monitoring, and debt counseling services are encouraged. Research emphasizes the importance of

empowering individuals to acquire the knowledge and tools they need to use them responsibly.

However, as credit usage increases, so does the potential for debt accumulation, particularly withhigher-interest credit cards. This necessitates the promotion of responsible borrowing practices and monitoring of outstanding dues. While Gross Non-Performing Assets (GNPA) levels have stabilized in recent years, they are projected to rise again, highlighting ongoing challenges with

loan repayment across sectors. Looking ahead, the Indian credit card market holds immense potential for continued growth. However, navigating this growth alongside responsible debt management and mitigating potential risks will require both industry-level action and individual consumer awareness. In conclusion, India's credit card scene is poised for exciting, yet uncertain, times. Careful analysis, prudent policy intervention, and responsible credit use are keyto unlocking the full potential of this dynamic market while ensuring financial stability and consumer well-being.

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