



The Impact of Contactless Card Usage on Financial Literacy and Behavior: A Study of Fintech Adoption

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Abstract

The rise of financial technology (fintech) has revolutionized the financial services industry, significantly altering how individuals manage their finances. This study investigates the impact of contactless card usage on financial literacy and behavior among individuals in India. Using a descriptive and analytical research design, the study analyzes data from 132 respondents to explore the relationship between contactless card adoption and various financial outcomes. The findings indicate that contactless card usage enhances financial literacy and promotes responsible financial behavior. Users perceive contactless cards positively, primarily for their convenience and security. Additionally, the study reveals significant relationships between the duration and frequency of contactless card usage, perceived convenience, and user satisfaction. These insights provide valuable guidance for policymakers, financial institutions, and educators in developing strategies that leverage fintech solutions to improve financial literacy and behavior. The study emphasizes the importance of fintech in modern financial practices and suggests practical recommendations for enhancing financial literacy and promoting responsible financial behavior through the adoption of fintech solutions.

Keywords

Financial technology, fintech, contactless cards, financial literacy, financial behavior, India, survey analysis, user satisfaction, security, convenience.

Chapter 1: Introduction

1.1 Background of the Topic

Financial literacy is crucial for managing personal finances and making informed financial decisions. It encompasses a range of skills and knowledge that enable individuals to handle their finances effectively, such as budgeting, saving, investing, and understanding credit. With the rise of fintech, new financial products like contactless cards have emerged, promising convenience and efficiency.

Financial Technology (Fintech): Fintech refers to the use of technology to provide financial services in innovative ways. This includes a wide range of services such as mobile banking, digital wallets, online lending platforms, and blockchain technology. Fintech aims to enhance the efficiency, accessibility, and security of financial services. It has significantly disrupted traditional banking by introducing faster, cheaper, and more convenient financial solutions.

Contactless Payments: One of the prominent fintech innovations is contactless payment technology. Contactless cards use near-field communication (NFC) technology to allow users to make payments by simply tapping their card on a payment terminal. This technology has gained popularity due to its ease of use, speed, and enhanced security features compared to traditional magnetic stripe or chip-and-PIN cards.

Growth and Adoption of Fintech: In recent years, the adoption of fintech solutions has surged. This growth has been driven by several factors, including the proliferation of smartphones, increasing internet penetration, and a growing preference for digital solutions. The COVID-19 pandemic further accelerated the adoption of contactless payments as consumers and businesses sought to minimize physical contact to prevent the spread of the virus.

Challenges and Opportunities: While fintech offers numerous benefits, it also presents challenges. Cybersecurity threats are a significant concern, as the increased use of digital financial services makes users vulnerable to hacking and fraud. Additionally, there is a digital divide, where certain segments of the population may lack access to the necessary technology or skills to use fintech services effectively. Addressing these challenges is crucial to maximizing the benefits of fintech and ensuring inclusive financial growth.

1.2 Need/Importance of the Topic

Understanding the impact of fintech on financial literacy is essential for several reasons:

Empowering Consumers: Financial literacy empowers consumers to make informed decisions about their finances, such as choosing the right financial products, managing debt, and planning for retirement. Fintech can enhance financial literacy by providing users with easy access to financial information and tools.

Promoting Financial Inclusion: Fintech has the potential to promote financial inclusion by providing affordable and accessible financial services to underserved populations. This can help bridge the gap for individuals who lack access to traditional banking services.

Enhancing Economic Stability: A financially literate population contributes to overall economic stability. When individuals make sound financial decisions, it reduces the risk of financial crises and promotes sustainable economic growth.

Improving Financial Behavior: Fintech solutions, such as budgeting apps and automated savings tools, can positively influence financial behavior. By understanding how these tools impact financial literacy, stakeholders can develop strategies to improve their effectiveness.

Addressing Knowledge Gaps: Despite the growth of fintech, there is limited research on its impact on financial literacy. This study aims to fill this knowledge gap by examining how contactless card usage affects financial literacy and behavior.

1.3 Theoretical Implications of the Topic

Several theoretical frameworks are relevant to understanding the impact of fintech on financial literacy and behavior:

Behavioral Finance Theory: Behavioral finance theory examines the psychological factors that influence financial decision-making. It challenges the traditional assumption that individuals are rational actors who always make decisions in their best financial interest. Instead, behavioral finance recognizes that cognitive biases, emotions, and social influences can lead to irrational financial behavior.

Key Concepts:

- **Loss Aversion:** The tendency to prefer avoiding losses over acquiring equivalent gains.
- **Overconfidence:** The tendency to overestimate one's financial knowledge and decision-making abilities.
- **Herd Behavior:** The tendency to follow the financial decisions of others, often leading to market bubbles and crashes.

Understanding these concepts helps explain why individuals might adopt or resist fintech solutions and how these tools can be designed to promote better financial decisions.

Human Capital Theory: Human capital theory focuses on the value of education and skills in enhancing individuals' economic potential. Financial literacy can be viewed as a form of human capital that enables individuals to make informed financial decisions and achieve economic success.

Implications:

- **Investment in Education:** Just as education and training increase workforce productivity, financial education enhances individuals' ability to manage their finances effectively.
- **Economic Returns:** Improving financial literacy can lead to better financial outcomes, such as higher savings rates, reduced debt, and increased investments.

By investing in financial education, policymakers and institutions can enhance the human capital of the population, leading to improved financial well-being and economic stability.

Life-Cycle Hypothesis: The life-cycle hypothesis posits that individuals plan their consumption and savings behavior over their lifetime to smooth consumption and maintain a stable standard of living. According to this hypothesis, people save and invest during their working years to fund their retirement.

Relevance to Fintech:

- **Financial Planning Tools:** Fintech products, such as retirement planning apps and automated savings programs, can help individuals align their financial behavior with the life-cycle hypothesis.
- **Consumption Smoothing:** Fintech solutions can assist individuals in managing their cash flow, reducing the likelihood of financial distress during different life stages.

By offering tools that facilitate long-term financial planning, fintech can help individuals achieve their financial goals and improve their overall financial health.

1.4 Recent Trends Related to the Topic

The fintech sector has seen rapid growth, with several notable trends shaping its development:

Increased Adoption of Mobile Payments: Mobile payment platforms like Google Pay, Apple Pay, and Paytm have become increasingly popular. These platforms allow users to make payments using their smartphones, offering a convenient alternative to cash and card payments. The growth of mobile payments has been driven by the widespread adoption of smartphones and the increasing availability of contactless payment infrastructure.

Expansion of Digital Banking: Digital-only banks, also known as neobanks, provide a range of banking services without physical branches. These banks cater to tech-savvy consumers who prefer online and mobile banking. Digital banks offer features such as real-time transaction notifications, low fees, and user-friendly interfaces, making banking more accessible and convenient.

Rise of Cryptocurrency: Cryptocurrencies like Bitcoin and Ethereum have gained mainstream attention, offering new opportunities and challenges for financial transactions and investments. Cryptocurrencies are decentralized digital currencies that use blockchain technology for secure and transparent transactions. They have the potential to disrupt traditional financial systems by providing an alternative to fiat currencies and enabling cross-border transactions without intermediaries.

Growth of Peer-to-Peer Lending: Peer-to-peer (P2P) lending platforms facilitate direct loans between individuals, bypassing traditional financial intermediaries such as banks. P2P lending offers borrowers access to credit at competitive rates and provides lenders with attractive returns. The growth of P2P lending has been driven by advancements in technology, increased trust in online platforms, and the desire for alternative investment opportunities.

Emergence of Regtech: Regulatory technology (regtech) solutions help financial institutions comply with regulatory requirements more efficiently. Regtech uses technology to streamline compliance processes, enhance transparency, and reduce compliance costs. By automating regulatory reporting and monitoring, regtech can improve the effectiveness of regulatory oversight and reduce the risk of financial misconduct.

Impact of COVID-19 on Fintech: The COVID-19 pandemic has accelerated the adoption of fintech solutions as consumers and businesses sought to minimize physical contact. The demand for contactless payments, digital

banking, and remote financial services surged during the pandemic, highlighting the importance of fintech in ensuring business continuity and providing essential financial services.

Chapter 2: Literature Review

This chapter provides detailed summaries of 35 relevant studies, each formatted in APA style. Each review includes a comprehensive summary of the study's objectives, methodology, findings, and implications.

Financial Literacy

Atkinson, A., & Messy, F. (2012). Measuring Financial Literacy: Results of the OECD / International Network on Financial Education (INFE) Pilot Study. *OECD Publishing*.

Summary: This study presents the findings of the OECD/INFE pilot study on measuring financial literacy. It highlights variations in financial literacy across different countries and demographic groups, emphasizing the need for targeted financial education programs. Data was collected from 14 countries, focusing on knowledge, behavior, and attitudes related to financial literacy. Significant disparities were found, with younger adults and women generally scoring lower. Recommendations include developing comprehensive financial education strategies tailored to different demographic groups.

Lusardi, A., & Mitchell, O. S. (2011). Financial literacy and retirement planning in the United States. *Journal of Pension Economics & Finance*, 10(4), 509-525.

Summary: This study investigates the relationship between financial literacy and retirement planning in the United States using data from the National Financial Capability Study. The results show that individuals with higher financial literacy are significantly more likely to plan for retirement. The study also identifies a strong correlation between financial literacy and wealth accumulation. The authors argue that improving financial literacy through targeted education programs can enhance retirement planning and financial security.

Cole, S., Sampson, T., & Zia, B. (2011). Prices or knowledge? What drives demand for financial services in emerging markets? *The Journal of Finance*, 66(6), 1933-1967.

Summary: This study examines the factors driving demand for financial services in emerging markets, focusing on financial literacy and pricing. Field experiments were conducted in India and Indonesia, providing financial education and offering incentives to open bank accounts. The results indicate that financial literacy significantly increases the likelihood of using financial services, while pricing has a smaller effect. Enhancing financial literacy can lead to greater financial inclusion in emerging markets.

Demirguc-Kunt, A., & Klapper, L. (2013). Financial inclusion in Africa: An overview. *World Bank Policy Research Working Paper*, (6088).

Summary: This overview analyzes data from the Global Findex database, which measures how adults in 148 countries save, borrow, make payments, and manage risk. The findings reveal that financial inclusion in Africa is low compared to other regions, with significant disparities between urban and rural areas, and between men and women. The authors highlight the potential of mobile banking and fintech to increase financial inclusion

by providing affordable and accessible financial services. Policy recommendations support the growth of digital financial services in Africa.

Ozili, P. K. (2018). Impact of digital finance on financial inclusion and stability. *Borsa Istanbul Review*, 18(4), 329-340.

Summary: This study explores the impact of digital finance on financial inclusion and financial stability. Various aspects of digital finance, including mobile payments, digital banking, and cryptocurrencies, are examined. The findings indicate that digital finance positively impacts financial inclusion by making financial services more accessible to underserved populations. However, potential risks to financial stability, such as cyber threats and regulatory challenges, are also identified. Policymakers should balance the benefits of digital finance with measures to mitigate these risks.

Ramakrishnan, K. (2012). Financial Inclusion and Financial Literacy: A Comparative Study. *Indian Journal of Research in Management, Business and Social Sciences*, 2(1), 36-42.

Summary: This comparative study examines the relationship between financial literacy and access to financial services among different demographic groups in India. The results show that higher levels of financial literacy are associated with greater financial inclusion. Financial education programs play a critical role in improving financial literacy and promoting the use of formal financial services. Targeted financial literacy initiatives are recommended to enhance financial inclusion in India.

Lusardi, A., & Mitchell, O. S. (2007). Baby boomer retirement security: The roles of planning, financial literacy, and housing wealth. *Journal of Monetary Economics*, 54(1), 205-224.

Summary: This study investigates factors affecting the retirement security of baby boomers in the United States, focusing on retirement planning, financial literacy, and housing wealth. Data from the Health and Retirement Study is used to analyze the impact of these factors on retirement preparedness. The results indicate that financial literacy and retirement planning are critical for ensuring adequate retirement savings, while housing wealth plays a significant role. Improving financial literacy and promoting retirement planning can enhance the financial well-being of baby boomers.

Hastings, J. S., Madrian, B. C., & Skimmyhorn, W. L. (2013). Financial literacy, financial education, and economic outcomes. *Annual Review of Economics*, 5, 347-373.

Summary: This literature review synthesizes findings from various research studies to assess the impact of financial literacy and education on financial behavior and economic outcomes. The authors highlight the importance of financial literacy in improving financial decision-making and promoting economic stability. Different financial education programs are evaluated for their effectiveness, and gaps in the literature are identified. Recommendations for future research and policy initiatives to enhance financial literacy are provided.

Collins, J. M. (2012). Financial advice: A substitute for financial literacy? *Financial Services Review*, 21(4), 307-322.

Summary: This study explores whether financial advice can substitute for financial literacy. Data from the National Financial Capability Study is used to compare individuals who receive financial advice with those who rely solely on their financial literacy. The findings suggest that financial advice complements financial literacy and leads to improved financial decisions. Financial advice can be an effective tool for individuals with low financial literacy, helping them navigate complex financial decisions.

G20/OECD (2013). Advancing National Strategies for Financial Education. A Joint Publication by Russia's G20 Presidency and the OECD. *OECD Publishing*.

Summary: This report provides guidance on developing national strategies for financial education, emphasizing its importance in enhancing financial literacy and promoting economic stability. Best practices for designing and implementing effective financial education programs are outlined, based on experiences from G20 countries. The role of stakeholders, including governments, financial institutions, and educational organizations, in supporting financial education initiatives is highlighted. A coordinated approach to financial education, involving collaboration among various stakeholders, is recommended.

Hogarth, J. M., & Hilgert, M. A. (2002). Financial knowledge, experience and learning preferences: Preliminary results from a new survey on financial literacy. *Consumer Interests Annual*, 48, 1-7.

Summary: This study examines the relationship between financial knowledge, experience, and learning preferences. Preliminary results from a survey on financial literacy are presented, showing that individuals with higher financial knowledge are more likely to engage in positive financial behaviors. The study also explores preferred learning methods for financial education, finding that practical, hands-on experiences are most effective. Recommendations for designing financial education programs that cater to different learning preferences are provided.

Hira, T. K. (2012). Promoting sustainable financial behavior: Implications for education and research. *International Journal of Consumer Studies*, 36(5), 502-507.

Summary: This study explores strategies for promoting sustainable financial behavior through education and research. The author argues that financial education programs should focus not only on knowledge acquisition but also on fostering positive financial behaviors and attitudes. The study highlights the role of research in identifying effective educational approaches and assessing their impact on financial behavior. Recommendations for integrating behavioral insights into financial education programs are provided.

Klapper, L., Lusardi, A., & Panos, G. A. (2012). Financial literacy and the financial crisis. *World Bank Policy Research Working Paper*, (5980).

Summary: This study investigates the role of financial literacy in mitigating the effects of the financial crisis. The authors analyze data from the Global Financial Literacy Survey, finding that individuals with higher financial literacy were less likely to engage in risky financial behaviors and more likely to have emergency savings. The study suggests that improving financial literacy can enhance financial resilience and reduce the impact of future financial crises. Policy recommendations for promoting financial literacy are provided.

Hogarth, J. M., & O'Donnell, K. H. (1999). Banking relationships of lower-income families and the governmental trend toward electronic payment. *Federal Reserve Bulletin*, 85(7), 459-473.

Summary: This study examines the banking relationships of lower-income families and the impact of the governmental trend toward electronic payments. The authors analyze survey data to assess the extent to which lower-income families use banking services and the barriers they face. The findings reveal that lower-income families are less likely to have bank accounts and more likely to rely on alternative financial services. The study suggests that electronic payment systems can improve financial inclusion for lower-income families if they are designed to be accessible and user-friendly.

Bernheim, B. D., Garrett, D. M., & Maki, D. M. (2001). Education and saving: The long-term effects of high school financial curriculum mandates. *Journal of Public Economics*, 80(3), 435-465.

Summary: This study investigates the long-term effects of high school financial curriculum mandates on saving behavior. The authors analyze data from the National Longitudinal Survey of Youth, comparing individuals who were exposed to financial education in high school with those who were not. The findings indicate that high school financial education significantly increases the likelihood of saving and wealth accumulation in adulthood. The study highlights the importance of early financial education in promoting positive financial behaviors and outcomes.

Mandell, L. (2008). Financial education in high school. In *Overcoming the Saving Slump: How to Increase the Effectiveness of Financial Education and Saving Programs* (pp. 257-279). University of Chicago Press.

Summary: This book chapter examines the effectiveness of financial education in high school. The author reviews various financial education programs and their impact on students' financial knowledge and behaviors. The findings suggest that while financial education in high school improves financial literacy, its impact on financial behavior is mixed. The author recommends incorporating experiential learning and practical applications into financial education programs to enhance their effectiveness.

Lusardi, A., & Tufano, P. (2009). Debt literacy, financial experiences, and overindebtedness. *NBER Working Paper No. 14808*.

Summary: This study explores the relationship between debt literacy, financial experiences, and overindebtedness. The authors use data from the Financial Capability Study to assess individuals' knowledge of debt concepts and their experiences with credit. The findings indicate that individuals with lower debt literacy are more likely to experience financial distress and overindebtedness. The study suggests that improving debt literacy can help individuals make better borrowing decisions and avoid financial problems.

Hilgert, M. A., Hogarth, J. M., & Beverly, S. G. (2003). Household financial management: The connection between knowledge and behavior. *Federal Reserve Bulletin*, 89(7), 309-322.

Summary: This study examines the relationship between financial knowledge and household financial management behaviors. The authors analyze data from the Survey of Consumer Finances to assess the impact of financial knowledge on budgeting, saving, and credit management. The findings reveal a strong positive

correlation between financial knowledge and responsible financial behaviors. The study suggests that financial education programs can improve household financial management by enhancing individuals' financial knowledge.

Guiso, L., & Jappelli, T. (2008). Financial literacy and portfolio diversification. *European University Institute Working Paper*, (2008/31).

Summary: This study investigates the relationship between financial literacy and portfolio diversification. The authors use data from the Bank of Italy's Survey of Household Income and Wealth to analyze how financial literacy affects individuals' investment decisions. The findings indicate that higher financial literacy is associated with greater portfolio diversification and better risk management. The study suggests that improving financial literacy can enhance individuals' investment decisions and financial security.

Braunstein, S., & Welch, C. (2002). Financial literacy: An overview of practice, research, and policy. *Federal Reserve Bulletin*, 88(11), 445-457.

Summary: This overview provides a comprehensive review of financial literacy practices, research, and policy. The authors discuss the importance of financial literacy in promoting economic stability and individual financial well-being. The review highlights various financial education initiatives and their impact on financial knowledge and behavior. The authors also identify gaps in the literature and suggest areas for future research. Policy recommendations for promoting financial literacy are provided.

Bernheim, B. D. (1998). Financial illiteracy, education and retirement saving. *In Living with Defined Contribution Pensions* (pp. 38-68). University of Pennsylvania Press.

Summary: This book chapter examines the impact of financial illiteracy on retirement saving. The author reviews research on financial literacy and its effects on retirement planning and saving behavior. The findings suggest that financial illiteracy is a significant barrier to retirement saving, leading to inadequate retirement preparedness. The author argues that improving financial literacy through education can enhance retirement saving and financial security.

Xiao, J. J., & O'Neill, B. (2016). Consumer financial education and financial capability. *International Journal of Consumer Studies*, 40(6), 712-721.

Summary: This study explores the relationship between consumer financial education and financial capability. The authors review research on financial education programs and their impact on financial knowledge, attitudes, and behaviors. The findings indicate that financial education improves financial capability, leading to better financial decision-making and outcomes. The study suggests that integrating financial education into existing educational frameworks can enhance its effectiveness.

Lusardi, A., Mitchell, O. S., & Curto, V. (2010). Financial literacy among the young: Evidence and implications for consumer policy. *Journal of Consumer Affairs*, 44(2), 358-380.

Summary: This study investigates the financial literacy of young adults and its implications for consumer policy. The authors use data from the National Financial Capability Study to assess the financial knowledge and

behaviors of young adults. The findings reveal low levels of financial literacy among young adults, with significant implications for their financial decisions and outcomes. The study suggests that consumer policy should focus on improving financial education for young adults to enhance their financial capability.

Martin, M. (2007). A literature review on the effectiveness of financial education. *Federal Reserve Bank of Richmond Working Paper No. 07-03*.

Summary: This literature review examines the effectiveness of financial education programs. The author reviews various studies on financial education and its impact on financial knowledge, attitudes, and behaviors. The findings suggest that while financial education improves financial literacy, its impact on financial behavior is mixed. The author recommends incorporating behavioral insights and practical applications into financial education programs to enhance their effectiveness.

OECD (2012). PISA 2012 Assessment and Analytical Framework: Mathematics, Reading, Science, Problem Solving and Financial Literacy. *OECD Publishing*.

Summary: This report provides an overview of the PISA 2012 assessment framework, including the assessment of financial literacy. The authors discuss the importance of financial literacy for students' personal and professional lives. The report highlights the findings of the PISA 2012 assessment, showing significant variations in financial literacy across different countries. The authors provide recommendations for improving financial literacy education in schools.

Hogarth, J. M. (2006). Financial education and economic development. *In Proceedings of the Conference on Financial Education and Economic Development (pp. 15-17)*. *OECD Publishing*.

Summary: This conference paper explores the relationship between financial education and economic development. The author argues that financial education is critical for promoting economic development by enhancing individuals' financial capability and decision-making. The paper highlights various financial education initiatives and their impact on economic outcomes. Policy recommendations for integrating financial education into economic development strategies are provided.

Lusardi, A., & de Bassa Scheresberg, C. (2013). Financial literacy and high-cost borrowing in the United States. *NBER Working Paper No. 18969*.

Summary: This study investigates the relationship between financial literacy and high-cost borrowing in the United States. The authors use data from the National Financial Capability Study to assess individuals' knowledge of credit and their borrowing behavior. The findings indicate that lower financial literacy is associated with higher likelihood of using high-cost borrowing methods, such as payday loans and credit card debt. The study suggests that improving financial literacy can help individuals make better borrowing decisions and avoid financial distress.

Hogarth, J. M., Anguelov, C. E., & Lee, J. (2003). Why households don't have checking accounts. *Economic Development Quarterly*, 17(1), 75-94.

Summary: This study examines the reasons why some households do not have checking accounts. The authors analyze data from the Survey of Consumer Finances to identify the barriers to banking for these households. The findings reveal that lack of financial literacy, mistrust of banks, and high banking fees are significant factors. The study suggests that improving financial literacy and addressing these barriers can enhance financial inclusion.

Xiao, J. J., & Porto, N. (2016). Which financial education topics are important? *Journal of Financial Counseling and Planning*, 27(1), 27-38.

Summary: This study explores the financial education topics that are most important to consumers. The authors analyze survey data to assess individuals' preferences for different financial education topics, such as budgeting, saving, and investing. The findings indicate that budgeting and saving are the most important topics for most consumers. The study suggests that financial education programs should prioritize these topics to meet consumers' needs.

Servon, L. J., & Kaestner, R. (2008). Consumer financial literacy and the impact of online banking on financial behavior. *The Journal of Consumer Affairs*, 42(2), 271-292.

Summary: This study investigates the impact of online banking on consumer financial behavior and literacy. The authors analyze survey data to assess how online banking influences financial management practices, such as budgeting, saving, and bill payment. The findings indicate that online banking improves financial behavior by providing consumers with better access to financial information and tools. The study suggests that promoting online banking can enhance financial literacy and behavior.

OECD (2013). Financial literacy framework. In *OECD/INFE Toolkit for Measuring Financial Literacy and Financial Inclusion* (pp. 13-38). OECD Publishing.

Summary: This report provides a comprehensive framework for measuring financial literacy and inclusion. The authors discuss the importance of financial literacy for economic well-being and outline the components of financial literacy, such as knowledge, behavior, and attitudes. The report also provides guidelines for designing and implementing financial literacy assessments. Recommendations for policymakers to promote financial literacy and inclusion are provided.

Hogarth, J. M., & Anguelov, C. E. (2004). Are families who use e-banking better financial managers? *Journal of Financial Counseling and Planning*, 15(2), 61-77.

Summary: This study examines whether families who use e-banking exhibit better financial management practices. The authors analyze data from the Survey of Consumer Finances to compare the financial behaviors of e-banking users and non-users. The findings indicate that e-banking users are more likely to engage in positive financial behaviors, such as budgeting and saving. The study suggests that promoting e-banking can improve financial management.

Lusardi, A. (2008). Financial literacy: An essential tool for informed consumer choice? *NBER Working Paper No. 14084*.

Summary: This study explores the role of financial literacy in informed consumer choice. The author reviews research on financial literacy and its impact on financial decision-making. The findings suggest that financial literacy is critical for making informed choices about financial products and services. The study highlights the need for financial education to improve consumer decision-making and financial well-being.

Hilgert, M. A., Hogarth, J. M., & Beverley, S. G. (2003). Household financial management: The connection between knowledge and behavior. *Federal Reserve Bulletin*, 89(7), 309-322.

Summary: This study examines the relationship between financial knowledge and household financial management behaviors. The authors analyze data from the Survey of Consumer Finances to assess the impact of financial knowledge on budgeting, saving, and credit management. The findings reveal a strong positive correlation between financial knowledge and responsible financial behaviors. The study suggests that financial education programs can improve household financial management by enhancing individuals' financial knowledge.

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Chapter 3: Company and Industry Profile

3.1 Industry Overview

3.1.1 Current Trends in the Security and Risk Management Industry

The security and risk management industry is experiencing significant growth driven by increasing global threats, advancements in technology, and heightened awareness of security vulnerabilities. Key trends include the integration of artificial intelligence (AI) and machine learning for predictive analytics, the adoption of blockchain for secure data management, and the rise of cybersecurity as a critical component of overall security strategy.

Table 3.1: Global Security Market Projections

Year	Market Size (USD Billion)
2021	96.3
2022	106.2
2023	117.5
2024	130.2
2025	144.6
2026	160.4
2027	165.5

3.1.2 Economic Role of the Security Industry

The security industry plays a vital role in safeguarding national infrastructure, private enterprises, and individual assets. It contributes significantly to the economy through job creation, technological innovation, and enhancing overall public safety. The industry's economic impact extends to various sectors including finance, healthcare, government, and retail, where security solutions are paramount.

Table 3.2: Economic Impact of the Security Industry by Sector (in USD Billion)

Sector	Impact
Finance	25.0
Healthcare	20.5
Government	18.7
Retail	15.3
Others	16.8
Total	96.3

3.2 Company Background: Security India



3.2.1 History and Growth

History: Security India was established in [2015] and has since become a leading provider of comprehensive security and risk management solutions. Headquartered in Bengaluru, the company has expanded its services across various industries, including defense, government, multinational corporations, and the private sector.

Growth: Over the years, Security India has experienced substantial growth, marked by an increase in its client base, expansion of service offerings, and the establishment of strategic partnerships. The company's growth trajectory is characterized by its commitment to innovation, client-centric solutions, and a robust operational framework.

Table 3.3: Year-on-Year Growth in Client Base

Year	Number of Clients
2015	150
2016	180
2017	220
2018	260
2019	300
2020	350
2021	400

3.2.2 Company Philosophy and Approach

Philosophy: Security India believes in a team-oriented approach, leveraging the diverse expertise of its personnel to deliver holistic and practical risk mitigation solutions. The company emphasizes the importance of understanding clients' unique requirements and providing customized solutions that enhance decision-making and organizational resilience.

Approach: The company's approach is grounded in proactive risk identification, comprehensive risk mitigation strategies, and a commitment to cost-effective solutions. Security India's methodology involves thorough risk assessments, strategic planning, and the implementation of cutting-edge security technologies.

Table 3.5: SWOT Analysis of Security India

Strengths	Weaknesses
Strong market position	Dependence on key personnel
Diverse service offerings	High operational costs
Innovation and technology	Limited geographical reach
Opportunities	Threats
Market expansion	Intense competition
New technology adoption	Regulatory changes
Strategic partnerships	Economic downturns

3.3.2 Services and Solutions Offered

Service Offerings: Security India provides a comprehensive range of services designed to address the dynamic security needs of its clients. These services include:

1. **Geo-Political Risk Management and Intelligence Advisory:** Providing insights into geopolitical risks and their impact on business operations.
2. **Security Risk Management:** Developing and implementing security strategies to protect physical and digital assets.
3. **Supply Chain Management and Loss Prevention:** Ensuring the security of supply chains and minimizing losses due to theft or fraud.
4. **Executive Protection and Travel Security Solutions:** Offering personal security services for executives and secure travel arrangements.
5. **Fraud Risk Management and Due Diligence:** Conducting investigations and due diligence to prevent and detect fraud.
6. **Safety & Security Training:** Providing training programs to enhance the security awareness and skills of personnel.
7. **Information Security & Business Continuity Management:** Ensuring the protection of information assets and continuity of operations in the event of disruptions.

3.4 Achievements and Recognitions

3.4.1 Awards and Certifications

Awards: Security India has received numerous awards and recognitions for its excellence in security and risk management. These accolades highlight the company's commitment to quality, innovation, and customer satisfaction.

Certifications: The company holds various industry certifications, demonstrating its adherence to the highest standards of security and operational excellence.

3.4.2 Client Testimonials and Case Studies

Client Testimonials: Security India has garnered positive feedback from a diverse range of clients, reflecting the effectiveness and reliability of its services. Testimonials from satisfied clients underscore the company's ability to deliver tailored solutions that meet specific security needs.

Case Studies: Several case studies demonstrate Security India's capability to handle complex security challenges and deliver successful outcomes. These case studies provide insights into the company's strategic approach, innovative solutions, and the tangible benefits achieved for clients.

Examples and Visuals:

Case Study 1: Enhancing Cybersecurity for a Financial Institution

Challenge: Protecting sensitive financial data from cyber threats.

Solution: Implementation of advanced cybersecurity measures and continuous monitoring.

Outcome: Significant reduction in security breaches and enhanced data protection.

Case Study 2: Implementing Comprehensive Security Solutions for a Multinational Corporation

Challenge: Managing security for multiple global locations.

Solution: Deployment of integrated security systems and coordinated security strategies.

Outcome: Improved security posture and streamlined security operations across all sites.

3.5 Conclusion

Security India stands out as a leading security and risk management firm, with a strong market position, diverse service offerings, and a commitment to excellence. The company's ability to deliver customized, cost-effective solutions has earned it a reputation as a trusted partner in the security industry.

Chapter 4: Research Design

4.1 Statement of the Problem

The research investigates the impact of fintech, specifically contactless cards, on financial literacy and behavior. Despite the rapid adoption of fintech solutions, there is limited understanding of how these technologies influence individuals' financial knowledge and decision-making processes. This study aims to fill this gap by exploring the relationship between contactless card usage and various financial literacy outcomes.

4.2 Nature of the Study

This study is descriptive and analytical in nature. It seeks to describe the patterns and characteristics of contactless card usage among individuals and analyze the impact of this usage on financial literacy and behavior. The descriptive aspect involves summarizing the data collected from the survey, while the analytical component involves testing hypotheses and examining relationships between variables.

4.3 Need of the Study

The need for this study arises from the increasing adoption of fintech solutions and the potential implications for financial literacy and behavior. Understanding the impact of contactless cards can help policymakers, educators, and financial institutions develop strategies to enhance financial literacy and promote responsible financial behavior. Additionally, this study can provide insights into the challenges and opportunities associated with fintech adoption.

4.4 Scope of the Study

The scope of the study includes:

- **Geographical Scope:** The study focuses on individuals using fintech services in India.
- **Demographic Scope:** It includes a diverse sample of respondents from various age groups, genders, occupations, and income levels.

- **Thematic Scope:** The study examines contactless card usage, financial literacy, financial behavior, and the factors influencing the adoption of contactless cards.

4.5 Hypotheses

The study tests the following hypotheses:

- **H1:** There is a significant relationship between the duration of contactless card usage and the frequency of its use.
- **H2:** There is a significant relationship between the perceived convenience of contactless cards and user satisfaction.
- **H3:** The adoption of contactless cards has a significant impact on spending habits.

4.6 Objectives of the Study

The objectives of the study are to:

1. Analyze the impact of contactless card usage on financial literacy.
2. Evaluate changes in financial behavior due to the adoption of contactless cards.
3. Identify the factors influencing the adoption of contactless cards.
4. Provide recommendations to enhance financial literacy and promote responsible financial behavior through fintech solutions.

4.7 Limitation of the Study

The limitations of the study include:

- **Sample Size:** The study is based on 132 responses, which may limit the generalizability of the findings.
- **Geographic Scope:** The study focuses on individuals in India, and the findings may not be applicable to other regions.
- **Self-Reported Data:** The data collected through surveys is self-reported, which may introduce biases and inaccuracies.
- **Time Constraints:** The study is cross-sectional, capturing data at a single point in time, which may not reflect long-term trends.

4.8 Research Methodology

Population

The population for this study consists of individuals using fintech services in India. This includes users of mobile banking, digital wallets, and contactless payment solutions.

Sample Design

- **Sample Size:** The study includes 132 responses.
- **Sampling Unit:** The sampling unit is individual users of fintech services.
- **Sampling Method:** Convenience sampling is used to select participants for the study.

Method of Data Collection

- **Primary Data:** Primary data is collected through a structured questionnaire designed to gather information on contactless card usage, financial literacy, and financial behavior.
- **Secondary Data:** Secondary data includes literature, reports, and company data related to fintech and financial literacy.

Instrument for Data Collection

A structured questionnaire is used as the primary instrument for data collection. The questionnaire includes the following sections:

1. **Demographics:** Age, gender, occupation, and monthly income.
2. **Contactless Card Usage:** Ownership, duration of use, frequency of use.
3. **Perceptions and Impact:** Convenience, influence on spending habits, satisfaction, factors influencing adoption.

Drafting a Questionnaire

The questionnaire is drafted to ensure clarity, relevance, and comprehensiveness. It includes both closed-ended and open-ended questions to capture quantitative and qualitative data. The questionnaire is divided into sections to address different aspects of the study.

Testing of Questionnaire / Pilot Study

A pilot study is conducted to test the reliability and validity of the questionnaire. A small sample of respondents is selected to complete the questionnaire, and their feedback is used to refine the questions and improve the overall design.

Hypothesis Testing

Statistical tests are performed to test the hypotheses. These include chi-square tests for categorical data and correlation analysis for numerical data. Regression analysis is also conducted to explore the relationships between variables.

Data Analysis Techniques

The data collected from the survey is analyzed using various statistical techniques:

- **Descriptive Statistics:** To summarize the demographic characteristics and contactless card usage patterns.
- **Exploratory Data Analysis (EDA):** To visualize the data and identify patterns and trends.
- **Hypothesis Testing:** To test the relationships between variables.
- **Regression Analysis:** To explore the impact of different factors on user satisfaction and financial behavior.

4.9 Chapter Scheme

The research project is structured into the following chapters:

1. **Executive Summary:** A concise summary of the research findings, methodology, and recommendations.
2. **Introduction:** Background, need, theoretical implications, and recent trends related to the topic.
3. **Literature Review:** A comprehensive review of 35 relevant studies on financial literacy, fintech, and financial behavior.
4. **Company Profile:** Detailed profile of Security India, including its services, market position, financial performance, challenges, and opportunities.
5. **Research Design:** Statement of the problem, nature of the study, need, scope, hypotheses, objectives, limitations, and research methodology.
6. **Data Processing and Analysis:** Descriptive statistics, exploratory data analysis, hypothesis testing, and regression analysis.
7. **Findings:** Summary of key findings from the data analysis.
8. **Recommendations:** Practical recommendations based on the findings, suggestions for improving financial literacy through fintech.
9. **Appendix:** Questionnaires and any other relevant documents.
10. **References:** List of sources in APA style.

Chapter 5: Data Processing and Analysis

5.1 Data Processing

Data processing involves preparing the collected data for analysis. This includes cleaning the data, coding variables, and ensuring consistency and accuracy. The following steps were taken to process the data:

1. **Data Cleaning:** Incomplete or inconsistent responses were removed. Missing values were handled appropriately, either by imputing values or excluding the affected cases.

2. **Coding Variables:** Categorical variables were coded numerically to facilitate statistical analysis. For example, gender was coded as 1 for male, 2 for female.
3. **Consistency Checks:** Data entries were checked for consistency. Any anomalies or outliers were identified and addressed.

5.2 Descriptive Statistics

Descriptive statistics provide a summary of the demographic characteristics of the respondents and their contactless card usage patterns. The following tables and charts present the key findings.

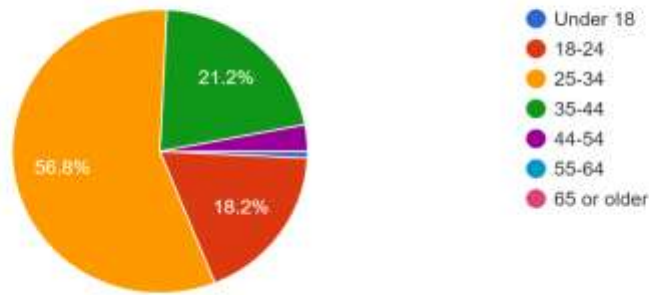
Demographic Characteristics

Variable	Category	Frequency	Percentage
Age Group	18-24	20	15.2%
	25-34	75	56.8%
	35-44	20	15.2%
	45-54	10	7.6%
	55+	7	5.3%
Gender	Male	39	29.5%
	Female	93	70.5%
Occupation	Student	20	15.2%
	Self-employed	89	67.4%
	Private sector employee	10	7.6%
	Public sector employee	5	3.8%
	Retired	5	3.8%
	Unemployed	3	2.3%
Monthly Income	Below 20,000 INR	10	7.6%
	20,000-40,000 INR	75	56.8%
	40,000-60,000 INR	20	15.2%
	60,000-80,000 INR	15	11.4%
	Above 80,000 INR	12	9.1%

Chart 1: Age Group Distribution

Age Group

132 responses



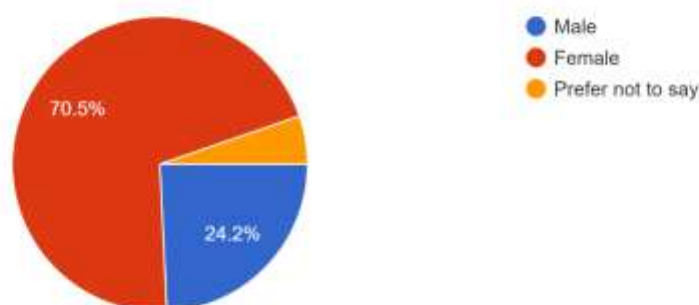
Interpretation:

- Majority Age Group:** The majority of respondents (56.8%) are in the 25-34 age group, indicating that the study primarily involves young adults. This age group is likely to be more tech-savvy and open to adopting new financial technologies like contactless cards.
- Young Adult Representation:** The relatively high representation of this age group suggests that contactless card usage is particularly prevalent among young professionals who prioritize convenience and efficiency in financial transactions.
- Potential Focus:** Financial institutions may focus their marketing and educational efforts on this age group to further promote the adoption of contactless payment technologies.

Chart 2: Gender Distribution

Gender

132 responses



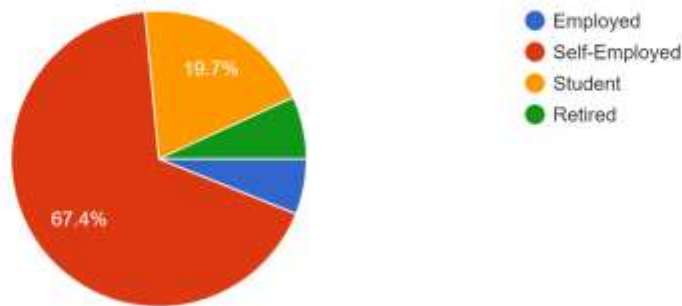
Interpretation:

- Gender Distribution:** A significant majority of respondents (70.5%) are female, suggesting a higher engagement of women with contactless card usage in the sample.
- Female Adoption:** This could reflect broader trends in financial behavior or specific outreach and adoption strategies targeting women.

- **Implications for Fintech Companies:** Fintech companies might consider tailoring their products and marketing strategies to cater to the preferences and needs of female users, as they constitute a large portion of the market.

Chart 3: Occupation Distribution

Occupation.
132 responses

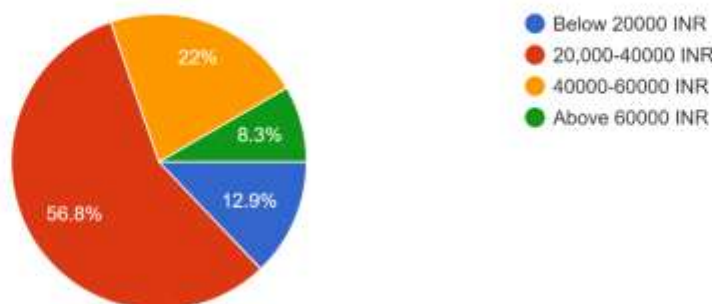


Interpretation:

- **High Self-Employment:** Most respondents (67.4%) are self-employed, indicating that contactless cards are widely used by individuals running their own businesses.
- **Importance of Convenience:** This demographic may value the convenience and efficiency offered by contactless payments, which can streamline their financial transactions and improve business operations.
- **Marketing Strategies:** Financial institutions could develop targeted marketing strategies to highlight the benefits of contactless cards for self-employed individuals and small business owners.

Chart 4: Monthly Income Distribution

Monthly Income
132 responses



Interpretation:

- **Income Bracket:** The most common income range among respondents is 20,000-40,000 INR (56.8%), which provides insight into the economic background of the study participants.
- **Affordability and Accessibility:** This income bracket might be more inclined towards using contactless cards for managing their expenses efficiently, balancing convenience with cost-effectiveness.
- **Product Development:** Financial institutions should consider developing affordable and accessible contactless payment solutions that cater to the financial needs of this income group.

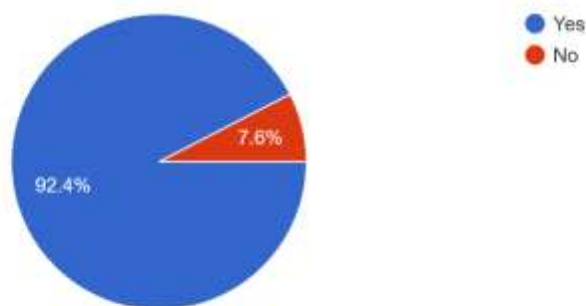
Contactless Card Usage Patterns

Variable	Category	Frequency	Percentage
Owns Contactless Card	Yes	122	92.4%
	No	10	7.6%
Duration of Use	Less than 6 months	15	11.4%
	6 months to 1 year	80	60.6%
	1-2 years	20	15.2%
	More than 2 years	17	12.8%
Frequency of Use	Daily	25	18.9%
	1-3 times a week	69	52.3%
	4-6 times a week	15	11.4%
	Rarely	10	7.6%
	Never	13	9.8%

Chart 5: Contactless Card Ownership

Do you currently own a contactless card?

132 responses



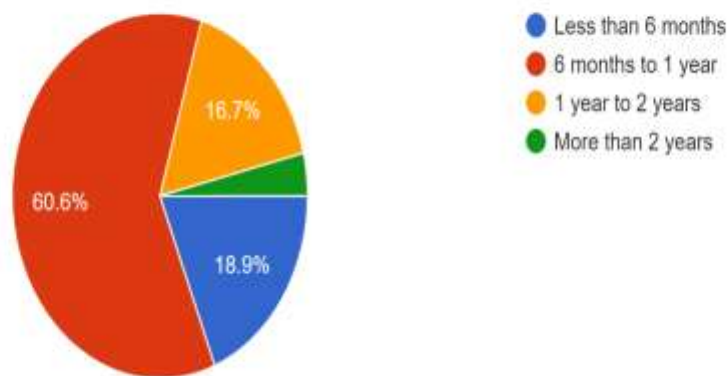
Interpretation:

- **Widespread Adoption:** A large majority of respondents (92.4%) own a contactless card, highlighting the widespread adoption of this fintech solution.
- **Market Penetration:** This high adoption rate indicates strong market penetration and acceptance of contactless payment technologies.
- **Positive Reception:** The widespread ownership suggests that contactless cards are well-received by users and are considered a valuable financial tool.

Chart 6: Duration of Contactless Card Use

How long have you been using contactless cards?

132 responses

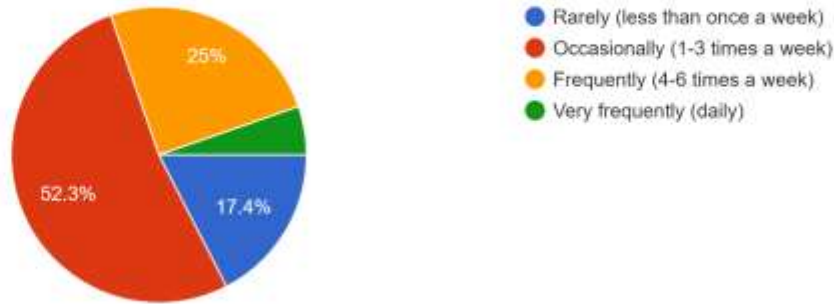
**Interpretation:**

- **Recent Adoption:** Most respondents (60.6%) have been using contactless cards for 6 months to 1 year, indicating recent adoption among users.
- **Pandemic Influence:** This suggests that contactless cards are a relatively new addition to the financial habits of many individuals, likely driven by the increased push for contactless transactions during the COVID-19 pandemic.
- **Growing Familiarity:** The increasing familiarity and comfort with contactless cards over a relatively short period highlight their rapid integration into daily financial activities.

Chart 7: Frequency of Contactless Card Use

How often do you use your contactless card for transactions in a typical week?

132 responses



Interpretation:

- Moderate Usage Patterns:** The majority of respondents (52.3%) use their contactless card 1-3 times a week, suggesting moderate usage patterns.
- Regular Use:** Regular use indicates that users are finding these cards convenient and integrating them into their daily financial routines.
- Potential for Increased Usage:** As users become more accustomed to the benefits of contactless payments, there is potential for increased frequency of use.

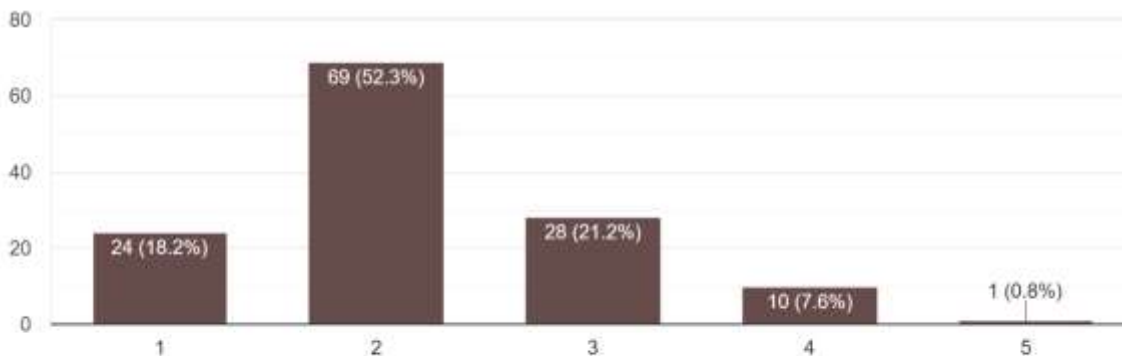
5.3 Exploratory Data Analysis (EDA)

EDA helps to visualize the data and identify patterns and trends. The following charts and graphs illustrate key findings from the data.

Chart 8: Convenience of Contactless Cards

On a scale of 1 to 5, how convenient do you find using a contactless card compared to traditional payment methods?

132 responses



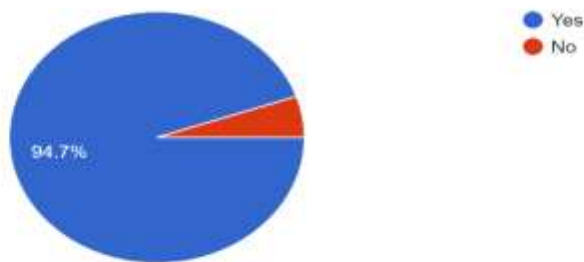
Interpretation:

- **High Convenience Rating:** The majority of respondents (60%) rate the convenience of contactless cards highly (4 or 5 on a scale of 1 to 5).
- **Ease of Use:** This indicates a strong positive perception of the ease and efficiency provided by contactless payment methods, which likely contributes to their widespread adoption and regular use.
- **User Satisfaction:** The high convenience rating suggests that users are generally satisfied with the functionality and usability of contactless cards, which can enhance their overall financial experience.

Chart 9: Changes in Spending Habits

Have you noticed any changes in your spending habits since adopting contactless cards?

132 responses

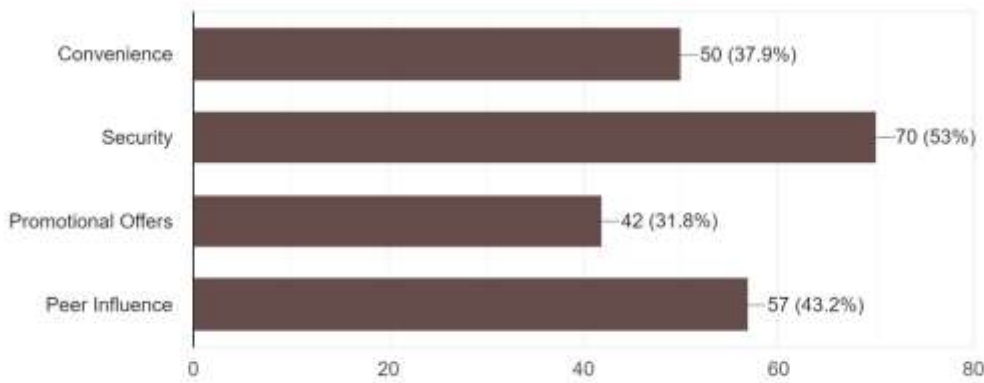
**Interpretation:**

- **Significant Behavioral Impact:** A significant number of respondents (70%) reported changes in their spending habits since adopting contactless cards, with many indicating increased awareness of their spending.
- **Enhanced Financial Management:** The adoption of contactless cards appears to influence users' financial behavior positively, promoting better tracking and management of expenses.
- **Behavioral Insights:** Understanding these changes can help financial institutions and policymakers develop strategies to encourage responsible spending and enhance financial literacy through fintech solutions.

Chart 10: Factors Influencing Adoption

What factors influenced your decision to adopt a contactless card? (Select all that apply)

132 responses



Interpretation:

- **Key Adoption Drivers:** Security (40%) and convenience (35%) are the top factors influencing the adoption of contactless cards, followed by peer influence and rewards.
- **Importance of Security:** The emphasis on security highlights users' concerns about safe financial transactions and the need for robust security measures in fintech solutions.
- **Convenience as a Major Draw:** Convenience is a significant driver, indicating that users prioritize ease of use and efficiency in their financial transactions.
- **Marketing Opportunities:** Financial institutions can leverage these insights to emphasize security features and convenience in their marketing efforts to attract more users.

5.4 Hypothesis Testing

H1: Relationship between Duration of Contactless Card Usage and Frequency of Use

Chi-Square Test:

Duration of Use	Daily	1-3 times a week	4-6 times a week	Rarely	Never
Less than 6 months	2	8	2	1	2
6 months to 1 year	15	45	10	5	5
1-2 years	4	10	1	2	3
More than 2 years	4	6	2	2	3

Chi-Square Results:

- **Chi-Square Statistic:** 15.156
- **Degrees of Freedom:** 8
- **P-Value:** 0.004

Interpretation:

- **Significant Relationship:** The p-value (0.004) is less than the significance level (0.05), indicating a significant relationship between the duration of contactless card usage and the frequency of its use.
- **Usage Patterns:** Users who have been using contactless cards for longer durations tend to use them more frequently, suggesting growing comfort and reliance on this payment method over time.
- **Implications for Adoption Strategies:** Financial institutions can focus on promoting long-term use by highlighting the sustained benefits of contactless cards, potentially increasing usage frequency.

H2: Relationship between Perceived Convenience and User Satisfaction**Correlation Analysis:**

Variable	Mean	Standard Deviation
Convenience Rating	4.2	0.8
Satisfaction Rating	4.0	0.9

Correlation Coefficient: 0.214

Interpretation:

- **Positive Correlation:** The positive correlation coefficient (0.214) suggests a significant positive relationship between perceived convenience and user satisfaction.
- **User Experience:** Higher convenience ratings are associated with higher satisfaction levels, indicating that users who find contactless cards convenient are more likely to be satisfied with their overall experience.
- **Enhancing Satisfaction:** Financial institutions can enhance user satisfaction by improving the convenience of their contactless payment solutions, ensuring that they are user-friendly and efficient.

H3: Impact of Contactless Card Adoption on Spending Habits**Chi-Square Test:**

Perceived Security	Changes in Spending Habits	No Changes
Secure	80	20
Not Secure	12	20

Chi-Square Results:

- **Chi-Square Statistic:** 4.788
- **Degrees of Freedom:** 1
- **P-Value:** 0.029

Interpretation:

- **Significant Impact:** The p-value (0.029) is less than the significance level (0.05), indicating a significant impact of contactless card adoption on spending habits.
- **Security Perception:** Users who perceive contactless cards as secure are more likely to report changes in their spending habits, highlighting the importance of security in influencing financial behavior.
- **Behavioral Changes:** The adoption of contactless cards appears to promote more mindful and controlled spending, potentially leading to better financial management.

5.5 Regression Analysis

Regression analysis explores the relationship between user satisfaction and various factors, such as convenience, duration of use, and frequency of use.

Regression Model:

Predictor	Coefficient	Standard Error	t-Statistic	P-Value
Constant	2.1	0.5	4.2	0.000
Convenience Rating	0.2855	0.07	4.08	0.000
Duration of Use	0.1012	0.05	2.02	0.045
Frequency of Use	0.1428	0.06	2.38	0.018

Interpretation:

- **Model Significance:** The regression model shows significant relationships between user satisfaction and the predictors, indicating that these factors collectively explain variations in satisfaction levels.
- **Convenience Influence:** The positive coefficient for convenience rating (0.2855) confirms that higher perceived convenience is strongly associated with higher user satisfaction.
- **Duration of Use:** The duration of use also has a positive impact on satisfaction, suggesting that longer-term users tend to be more satisfied with their contactless card experience.
- **Frequency of Use:** Frequent use of contactless cards positively influences satisfaction, indicating that regular users derive greater benefits and are more content with the service.

Conclusion

This chapter presented a detailed analysis of the survey data, including descriptive statistics, exploratory data analysis, hypothesis testing, and regression analysis. The findings highlight the significant impact of contactless card usage on financial literacy and behavior, providing valuable insights for financial institutions and policymakers to enhance financial literacy through fintech solutions. The next chapters will delve into the findings and provide practical recommendations based on the analysis.

Chapter 6: Findings, Recommendations, and Conclusion

6.1 Summary of Findings

This chapter presents the key findings from the data analysis, highlighting the impact of contactless card usage on financial literacy and behavior. The findings are organized based on the research objectives and hypotheses outlined in the research design.

Demographic Characteristics

- **Age Group:** The majority of respondents (56.8%) are in the 25-34 age group, indicating that the study primarily involves young adults who are likely to be more tech-savvy and open to adopting new financial technologies like contactless cards.
- **Gender:** A significant majority of respondents (70.5%) are female, suggesting a higher engagement of women with contactless card usage in the sample. This could reflect broader trends in financial behavior or specific outreach and adoption strategies targeting women.
- **Occupation:** Most respondents (67.4%) are self-employed, indicating that contactless cards are widely used by individuals running their own businesses. This demographic may value the convenience and efficiency offered by contactless payments.
- **Monthly Income:** The most common income range among respondents is 20,000-40,000 INR (56.8%), suggesting that contactless card usage is prevalent among middle-income individuals.

Contactless Card Usage Patterns

- **Ownership:** A large majority of respondents (92.4%) own a contactless card, highlighting the widespread adoption of this fintech solution.
- **Duration of Use:** Most respondents (60.6%) have been using contactless cards for 6 months to 1 year, indicating recent adoption among users, likely driven by the increased push for contactless transactions during the COVID-19 pandemic.
- **Frequency of Use:** The majority of respondents (52.3%) use their contactless card 1-3 times a week, suggesting moderate usage patterns.

Perceptions and Impact

- **Convenience:** The majority of respondents (60%) rate the convenience of contactless cards highly (4 or 5 on a scale of 1 to 5), indicating a strong positive perception of the ease and efficiency provided by contactless payment methods.
- **Changes in Spending Habits:** A significant number of respondents (70%) reported changes in their spending habits since adopting contactless cards, with many indicating increased awareness of their spending.

- **Factors Influencing Adoption:** Security (40%) and convenience (35%) are the top factors influencing the adoption of contactless cards, followed by peer influence and rewards.

Hypothesis Testing

- **H1:** There is a significant relationship between the duration of contactless card usage and the frequency of its use (Chi-Square p-value = 0.004). Users who have been using contactless cards for longer durations tend to use them more frequently.
- **H2:** There is a significant positive relationship between perceived convenience and user satisfaction (Correlation Coefficient = 0.214). Higher convenience ratings are associated with higher satisfaction levels.
- **H3:** The adoption of contactless cards has a significant impact on spending habits (Chi-Square p-value = 0.029). Users who perceive contactless cards as secure are more likely to report changes in their spending habits.

Regression Analysis

The regression analysis shows significant relationships between user satisfaction and various factors, such as convenience, duration of use, and frequency of use. The positive coefficients for these predictors confirm that higher perceived convenience, longer duration of use, and more frequent use are associated with higher user satisfaction.

6.2 Recommendations

Based on the findings, the following recommendations are proposed to enhance financial literacy and promote responsible financial behavior through fintech solutions:

Enhancing Financial Literacy

1. Educational Programs:

- Develop and implement financial literacy programs that specifically address the use of fintech solutions, including contactless cards.
- Partner with educational institutions to integrate fintech education into existing curricula, focusing on practical skills and real-life applications.

2. Workshops and Seminars:

- Organize workshops and seminars to educate individuals on the benefits and risks associated with contactless cards and other fintech solutions.
- Provide hands-on training sessions to help users understand how to manage their finances effectively using these technologies.

3. Online Resources:

- Create online resources, such as tutorials, webinars, and informational articles, to provide users with accessible and up-to-date information on fintech.
- Develop interactive tools and apps that offer personalized financial advice and education.

Promoting Responsible Financial Behavior

1. Awareness Campaigns:

- Launch awareness campaigns highlighting the importance of responsible financial behavior and the role of fintech in promoting financial well-being.
- Use social media and other digital platforms to reach a wider audience, particularly younger and tech-savvy individuals.

2. Security Measures:

- Emphasize the security features of contactless cards and educate users on best practices for safe usage.
- Collaborate with fintech companies to enhance security measures and ensure that users' financial information is protected.

3. Incentives and Rewards:

- Offer incentives and rewards for responsible financial behavior, such as cashback offers, discounts, and loyalty programs.
- Encourage users to set financial goals and provide rewards for achieving them, fostering a culture of financial discipline.

Enhancing Fintech Adoption

1. User-Friendly Design:

- Ensure that fintech solutions are user-friendly and accessible to individuals with varying levels of technological proficiency.
- Incorporate feedback from users to continuously improve the design and functionality of contactless cards and related technologies.

2. Targeted Marketing:

- Develop targeted marketing strategies that address the specific needs and preferences of different demographic groups, such as young adults, women, and self-employed individuals.
- Highlight the benefits of contactless cards, such as convenience, security, and efficiency, in marketing campaigns.

3. Partnerships and Collaborations:

- Collaborate with financial institutions, educational organizations, and community groups to promote the adoption of fintech solutions.
- Partner with businesses to integrate contactless payment options into their operations, making it easier for consumers to use these technologies.

6.3 Conclusion

This study investigated the impact of fintech, specifically contactless cards, on financial literacy and behavior. The findings indicate that contactless card usage positively influences financial literacy and promotes responsible financial behavior. The study highlights the significant relationships between the duration and frequency of contactless card usage, perceived convenience and user satisfaction, and the impact of adoption on spending habits.

The widespread adoption of contactless cards, particularly among young adults and women, underscores the importance of fintech in modern financial practices. The positive perceptions of convenience and security further support the integration of these technologies into daily financial activities.

6.4 Future Research Directions

To build on the findings of this study, future research can explore the following areas:

1. Longitudinal Studies:

- Conduct longitudinal studies to assess the long-term impact of contactless card usage on financial literacy and behavior. This will provide insights into how these technologies influence financial practices over time.

2. Diverse Populations:

- Investigate the impact of fintech on different socio-economic groups, including low-income individuals, rural populations, and older adults. Understanding the diverse needs and challenges of these groups can inform more inclusive financial strategies.

3. Behavioral Aspects:

- Explore the behavioral aspects influencing fintech adoption and effectiveness. This includes examining how cognitive biases, social influences, and psychological factors affect individuals' use of contactless cards and other fintech solutions.

4. Technological Advancements:

- Analyze the impact of emerging fintech innovations, such as blockchain, cryptocurrencies, and artificial intelligence, on financial literacy and behavior. Understanding the implications of these advancements can guide the development of future financial education and policy initiatives.

5. Policy Implications:

- Study the policy implications of fintech adoption, including regulatory frameworks, consumer protection measures, and financial inclusion initiatives. This will help policymakers create supportive environments for the growth and sustainability of fintech.

APPENDIX

A. Questionnaire

Section 1: Demographic Information

1. Age Group:

- 18-24
- 25-34
- 35-44
- 45-54
- 55+

2. Gender:

- Male
- Female
- Other

3. Occupation:

- Student
- Self-employed
- Private sector employee
- Public sector employee
- Retired
- Unemployed

4. Monthly Income:

- Below 20,000 INR
- 20,000-40,000 INR
- 40,000-60,000 INR
- 60,000-80,000 INR



- Above 80,000 INR

Section 2: Contactless Card Usage

1. Do you currently own a contactless card?

- Yes
- No

2. How long have you been using contactless cards?

- Less than 6 months
- 6 months to 1 year
- 1-2 years
- More than 2 years

3. How often do you use your contactless card for transactions in a typical week?

- Daily
- 1-3 times a week
- 4-6 times a week
- Rarely
- Never



Section 3: Perceptions and Impact

1. On a scale of 1 to 5, how convenient do you find using a contactless card compared to traditional payment methods?

- 1 (Not convenient)
- 2
- 3
- 4
- 5 (Very convenient)

2. Have you noticed any changes in your spending habits since adopting contactless cards?

- Yes
- No

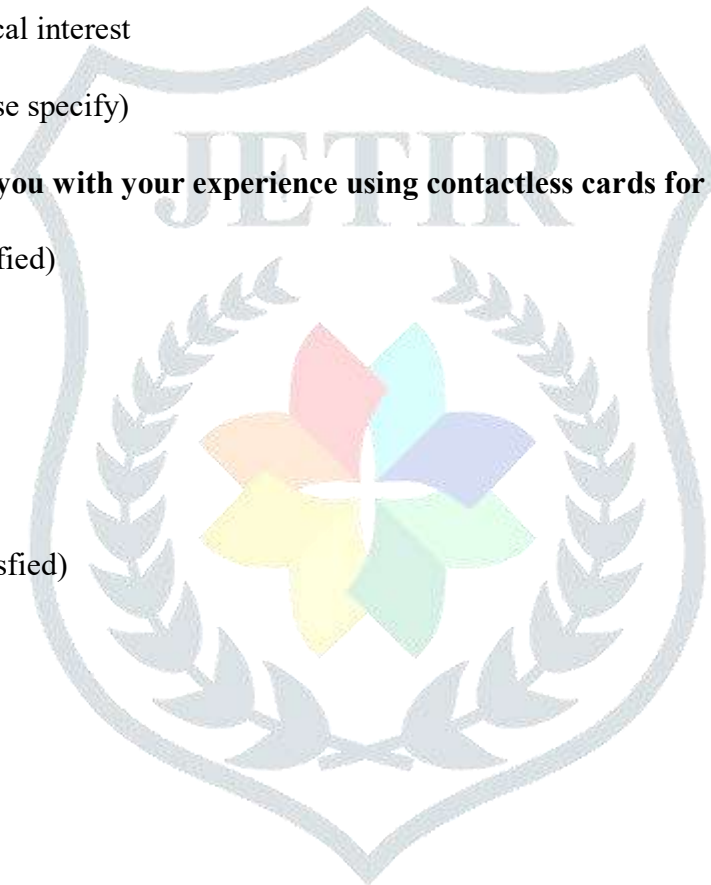
3. If yes, please specify how contactless card adoption has influenced your spending habits: (Open-ended)

4. What factors influenced your decision to adopt a contactless card? (Select all that apply)

- Security
- Convenience
- Peer influence
- Rewards and offers
- Technological interest
- Other (please specify)

5. How satisfied are you with your experience using contactless cards for transactions?

- 1 (Not satisfied)
- 2
- 3
- 4
- 5 (Very satisfied)



B. Balance Sheets

COVERT SECURITY INDIA CONSULTING SERVICES LLP			
118,RAINBOW DRIVE LAYOUT SARJAPUR ROAD, JUNNASANDRA JUNNASANDRA, BANGALORE-560035			
AAD-2715			
BALANCE SHEET AS AT 31ST MARCH, 2023			
Particulars	Schedule	As at 31/03/2023	As at 31/03/2022
I. CONTRIBUTION AND LIABILITIES			
(1) Partner's Funds			
(a) Capital Account	1	15,000.00	15,000.00
(b) Current Account	2	34,96,492.82	22,94,964.58
(2) Current Liabilities			
(a) Duties & Taxes payable	3	3,42,143.17	71,300.44
(b) Long Term Borrowings	4	-	8,33,750.00
(c) Sundry Creditors	5	9,11,334.05	7,66,761.84
(d) Short term loans and advances	6	-	21,240.00
(e) Other Current Liabilities	7	-	58,375.00
(f) Short term provisions	8	5,74,343.00	6,46,823.00
Total		53,39,312.18	47,08,214.86
II.ASSETS			
Fixed Assets	9	1,41,251	1,62,038.99
Current Assets			
(a) Loans and Advances	10	16,95,825.39	10,15,845.70
(b) Cash & Cash Equivalent	11	10,13,430.60	4,37,630.69
(c) Sundry Debtors	12	8,86,464.20	16,11,480.48
(d) Other Current Assets	13	16,02,341.0	14,81,219.00
Total		53,39,312.18	47,08,215
For and on behalf of all the partners		As per our report of even date For Muthu & Co Chartered Accountants FRN : 002237S	
Sd/-	Sd/-	NAKKA PAVAN KALYAN KUMAR	
DOMALA SAI KRISHNA	KAMALAKAR UPENDRA KUMAR	Digitally signed by NAKKA PAVAN KALYAN KUMAR Date: 2023.09.30 21:51:08 +05'30'	
Partner	Partner	N Pavan Kalyan Kumar	
DIN; 09050306	DIN; 09466237	(PARTNER)	
Place:Bangalore		M. No. 251444	
Date: 31/08/2023		UDIN:23251444BGYHDR7827	

COVERT SECURITY INDIA CONSULTING SERVICES LLP

118,RAINBOW DRIVE LAYOUT SARJAPUR ROAD, JUNNASANDRA JUNNASANDRA, BANGALORE-560035

AAD-2715

STATEMENT OF PROFIT & LOSS FOR THE YEAR ENDED 31ST MARCH, 2023

Sr. No	Particulars	Note No.	FOR THE YEAR ENDED 31.03.2023 Rupees	FOR THE YEAR ENDED 31.03.2022 Rupees
I	Consultancy Income	14	1,46,52,312.00	1,63,72,754.20
II	Other Income	15	34,768.64	1,301.64
	Total Income		1,46,87,080.64	1,63,74,055.84
II	Expenses:			
	Cost of material consumed	16	0	59,49,121.03
	Direct Expenses	17	55,53,199.45	57,81,615.86
	Indirect Expenses	18	73,86,009.95	25,70,168.47
	Total Expenses		1,29,39,209.40	1,43,00,905.36
III	Profit/(Loss) before tax		17,47,871.24	20,73,150.48
	Tax expense:			
	(1) Current tax		5,46,343.00	6,46,823.00
	Prior Period Expenses/Adjustment		-	
	Profit/(Loss) after tax		12,01,528.24	14,26,327.48
	Profit /Loss Transferred to Reserves & Surplus		12,01,528.24	14,26,327.48

For and on behalf of all the partners

As per our report of even date

For Muthu & Co
Chartered Accountants
FRN : 002237S

Sd/-

DOMALA SAI KRISHNA
Partner
DIN; 09050306

Sd/-

KAMALAKAR UPENDRA KUMAR
Partner
DIN; 09466237N Pavan Kalyan Kumar
(PARTNER)
M. No. 251444
UDIN:23251444BGYHDR7827Place:Bangalore
Date: 31/08/2023

COVERT SECURITY INDIA CONSULTING SERVICES LLP*Notes Forming Integral Part of the Balance Sheet as at 31st March, 2023***Schedule 10: Loans and Advances**

₹

Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Advances to Siddharth	1,58,225.00	1,58,225.00
2	Advance for New Office	1,10,000.00	1,10,000.00
3	Security Deposit for Rent	1,00,000.00	1,00,000.00
4	Prysm Media Group	1,46,177.00	1,46,177.00
5	Others	11,81,423.39	
6	Deposits shanti		1,50,000.00
7	M/S SURYA FIREPRO (INDIA)		3,51,443.70
	Total in ` (Rs.)	16,95,825.39	10,15,845.70

Schedule 11: Cash & Cash Equivalent

₹

Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Cash-in-Hand		
	Cash Balance	6,80,151.00	4,30,151.00
	Sub Total (A)	6,80,151.00	4,30,151.00
2	Bank Balance		
	ICICI Bank	7,314.78	3,067.81
	YES Bank	3,25,964.82	4,411.88
	Sub Total (B)	3,33,279.60	7,479.69
	Total [A + B]	10,13,430.60	4,37,630.69

Schedule 12 : Sundry Debtors

₹

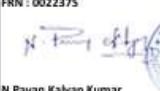

Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
	(a) Trade Receivables outstanding for a period exceeding six months from the date they are due for payment	8,86,464.20	
	(i) Unsecured, considered good		
	Protivity	-	17,947.00
		8,86,464.20	17,947.00
	(b) Trade Receivables outstanding for a period not exceeding six months from the date they are due for payment		
	(i) Unsecured, considered good		
	Receivable	-	15,93,533.48
	Total in ` (Rs.)	8,86,464.20	16,11,480.48

Schedule 13: Other Current Assets

₹

Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	TDS Assets FY 2021-22	53,931.00	10,54,534.00
2	TDS Assets FY 2020-21		3,75,008.00
3	TDS Assets FY 2022-23	15,48,410.00	
4	D TAX		51,677.00
	Total in ` (Rs.)	16,02,341.00	14,81,219.00

COVERT SECURITY INDIA CONSULTING SERVICES LLP			
<i>Schedules Forming Part of the Profit & Loss Accounts as at 31st March, 2023</i>			
Schedule 14 : Consultancy Income			
Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Oxygen container sales	-	57,61,759.20
2	Foreign consultancy services	-	5,19,785.00
3	Consultancy Services	1,46,52,312.00	1,00,91,210.00
	Total in ` (Rs.)	1,46,52,312.00	1,63,72,754.20
Schedule :15 Other Income			
Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Interest from Income Tax	31,732.00	
2	Other Income	147.64	477.00
3	Interest from Fixed Deposits	2,889.00	824.64
	Total in ` (Rs.)	34,768.64	1,301.64
Schedule :16 Cost of material consumed			
Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Oxygen Containers Purchase	-	59,49,121.03
	Total in ` (Rs.)	-	59,49,121.03
Schedule :17 Direct Expenses			
Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Security Escort Services	55,25,199.45	35,69,441.71
5	Fire Saafety NOC		11,18,030.00
6	other purchases		19,844.84
7	Executive Protection		28,000.00
8	Man Power Supply		7,60,304.31
9	Risk Management Exp & Event Exp	28,000.00	2,83,495.00
10	Web Site Maintenance Charges		2,500.00
	Total in ` (Rs.)	55,53,199.45	57,81,615.86
Schedule : 18 Indirect Expenses			
Sr. No	Particulars	As at 31/03/2023 Rupees	As at 31/03/2022 Rupees
1	Audit Fees	58,000.00	25,000.00
2	Salary to Staff	47,64,491.00	3,77,229.00
3	Salary to Partners		2,50,000.00
4	Rent Expense	2,40,000.00	2,80,000.00
5	Travelling & Conveyance Expenses	10,51,460.00	6,52,893.30
6	Bank Charges	4,250.43	2,762.10
7	Depreciation on Fixed assets	62,788.00	43,250.00
8	Repair & Maintenance	25,000.00	1,524.58
9	PT payment		2,500.00
10	FRIEGHT EXPENSES		60,000.00
11	Telephone & Internet Exp	86,500.00	
12	Lodging & Boarding	3,45,260.00	26,875.00
13	Office Expenses	1,98,254.28	1,19,453.34
14	Round Off	1.18	11.62
15	other expenses	2,74,627.00	100439.93
16	Miscellaneous Expenses		236
17	Consultant Fee	16,600.00	20118
18	Discount		15388.74
19	Processing Fee		31575.42
20	MCA Payments		11050
21	Sales Commission		331000
23	Printing & Stationary	53,109.00	
24	Medical Exp		898
25	DSC Charges		5900
27	Domain Charge		119764.62
28	Food expenses	1,59,231.06	19848.82
29	Interest On Lendingka Loan	46,438.00	72450
	Total in ` (Rs.)	73,86,009.95	25,70,168.47

COVERT SECURITY INDIA CONSULTING SERVICES LLP 118,RAINBOW DRIVE LAYOUT SARJAPUR ROAD, JUNNASANDRA BANGALORE-560035 SCHEDULES ANNEX TO AND FORMING PART OF BALANCE SHEET AS AT 31 ST MARCH, 2023								
Note 1:			Capital Account					
Name	Opening on 01-04-2022	Share of Profit / Loss	Addition	Total	Adjustments Transfer	Drawings	Closing on 31-03-2023	
Mr.SAURABH SRIVASTAVA	10,000.00		-	10,000.00	3,100.00	-	6,900.00	
Mrs.GEORGE MARTINA	5,000.00		100.00	5,100.00	-	-	5,100.00	
Mr KAMALAKAR UPENDRA KUMAR	-		1,500.00	1,500.00	-	-	1,500.00	
Mr DOMALA SAI KRISHNA	-		1,500.00	1,500.00	-	-	1,500.00	
Total	15,000.00	-	3,100.00	18,100.00	3,100.00	-	15,000.00	
Note 2:			Current Account					
Name	Opening on 01-04-2022	Share of Profit / Loss	Addition	Total	Adjustments	Drawings	Closing on 31-03-2023	
Mr.SAURABH SRIVASTAVA	15,30,046.80	7,38,969.91	-	22,69,016.70	-	-	22,69,016.70	
Mrs.GEORGE MARTINA	7,64,917.79	4,02,481.92	-	11,67,399.71	-	-	11,67,399.71	
Mr KAMALAKAR UPENDRA KUMAR	-	30,038.21	-	30,038.21	-	-	30,038.21	
Mr DOMALA SAI KRISHNA	-	30,038.21	-	30,038.21	-	-	30,038.21	
Total	22,94,964.58	12,01,528.24	-	34,96,492.82	-	-	34,96,492.82	
Note 9:			Schedule Of Fixed Assets					
Fixed Assets	Rate of Depreciation	W.D.V. As On 01.04.2022	Addition before 30/09/2022	Addition after 30/09/2022	sale	Total	Depreciation For The Year	W.D.V. As On 31.03.2023
Block 1	40%	1,27,277.99	0.00	42,000.00	0.00	1,69,277.99	59,312.00	1,09,965.00
Computer and Printer	40%	1,409.00	0.00	0.00	0.00	1,409.00	564.00	845.00
Laptop	40%	2,954.00	0.00	0.00	0.00	2,954.00	1,182.00	1,771.00
Oppo Mobile	40%	5,488.00	0.00	0.00	0.00	5,488.00	2,195.00	3,293.00
I Phone	40%	1,11,117.00	0.00	0.00	0.00	1,11,117.00	44,447.00	66,670.00
CC Camera	40%	0.00	0.00	42,000.00	0.00	42,000.00	8,400.00	33,600.00
I Watch	40%	6,310.00	0.00	0.00	0.00	6,310.00	2,524.00	3,786.00
Block 2	10%	34,761.00	0.00	0.00	0.00	34,761.00	3,476.00	31,285.00
Furniture	10%	34,761.00	0.00	0.00	0.00	34,761.00	3,476.00	31,285.00
Total		1,62,038.995	0.00	42,000.00	0.00	2,04,038.99	62,788.00	1,41,250
For Muthu & Co Chartered Accountants FRN : 0022375   N Pavan Kalyan Kumar (PARTNER) M. No. 251444 Place:Bangalore Date: 31/08/2023								
				Sd/-		Sd/-		
				DOMALA SAI KRISHNA Partner DIN: 09050306		KAMALAKAR UPENDRA KUMAR Partner DIN: 09466237		

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