Consumer Behaviour Analysis: Understanding Economic Decision Making Through Big Data

Sanya Rajpal
Prospecta Software, India

Abstract — Understanding consumer decision-making, particularly during economic fluctuations, is crucial for businesses and policymakers. This research delves into the power of big data analytics to unveil the complexities of consumer behavior in an Indian context. The paper first explores established consumer behavior theories and examines how big data is revolutionizing this field globally. By reviewing existing studies on big data analysis and identifying research gaps, the foundation for this investigation is laid. Next, the methodology section outlines the data collection process. It details the sources of big data, such as social media and online shopping platforms, and explores ethical methods for gathering and processing this information. Statistical tools and machine learning algorithms are proposed as potential analytical techniques, with a focus on ensuring data privacy compliance. The heart of the research lies in the analysis of consumer behavior. The paper investigates techniques for segmenting consumers based on demographics, behavior, and preferences. It explores the factors influencing purchasing decisions, including price sensitivity and brand loyalty. Sentiment analysis of online discussions and reviews will be used to glean deeper insights. These insights are then translated into actionable strategies for economic decision-making. The paper examines how understanding consumer behavior shapes marketing strategies, pricing tactics, and product development. Additionally, policy recommendations are offered for businesses and the government. Challenges faced in big data analysis, such as data quality, biases, and resource constraints, are then addressed. The paper concludes by looking toward the future, identifying trends in consumer behavior analysis and big data technologies. It proposes potential areas for further research on Indian consumer behavior and suggests future directions for businesses and policymakers. This research aims to contribute significantly to understanding economic decision-making in India by leveraging the power of big data. The findings have the potential to inform business practices and government policies, ultimately impacting the economic landscape of the country.

Keywords: Consumer Behaviour Analysis, Economic Decision, Big Data

I. Introduction

A. Importance of Studying How People Make Economic Decisions

"The economy is the art of making the most of life. The love of the economy is the root of all virtue." Life is determined by the decisions we make. With so many options available to us, making decisions can sometimes feel daunting or confusing. "Nothing is more difficult, and therefore more precious, than to be able to decide" (Tutor2u, n.d.). Economic decisions are made to serve the goals of individuals and private organizations (private goals) and society as a whole (public goals); it involves choices made by them. Information plays an important role in the decision-making process as it helps in assessing alternatives, predicting outcomes, and understanding market conditions (IJCRT, 2022). It helps decision-makers allocate resources optimally and efficiently. Informed decisions also allow better risk assessment and management by helping the decision-makers anticipate potential challenges and implement strategies to mitigate risks (Narayan, n.d.). It also facilitates market analysis. Accurate and timely information about market trends, consumer preferences, and competitor actions is essential for firms to make informed decisions about pricing, production, and marketing strategies (ResearchGate, n.d.). In policy formulation, governments rely on information to formulate effective economic policies. Data on unemployment rates, inflation, and GDP growth are crucial for designing policies that promote economic stability and investment decisions about financial markets, interest rates, and company performance to make informed decisions (Domo, n.d.). This helps enhance the efficiency of capital allocation in financial markets.

B. Role of Big Data in Analyzing Consumer Behavior

Big data refers to extremely large and diverse data sets that cannot be effectively processed or analyzed using traditional data processing techniques. It is characterized by volume, velocity, variety, variability, veracity, value, and visualization of data, and typically includes both structured, unstructured, and semi-structured data that continues to grow exponentially over time. With the advent of new technologies such as cloud computing, machine learning, and artificial intelligence, big data has become an increasingly important part of research and application (Narayan, n.d.).

From the perspective of consumer behavior studies, big data analytics is a tool that can effectively predict future consumer behavior. Consumer behavior is a discipline that focuses on understanding the behavior and motivations of consumers during the process of purchasing products and services. This predictive capability helps businesses anticipate consumer needs, preferences, and potential market shifts. It helps facilitate highly personalized marketing strategies (ResearchGate, n.d.; IJCRT, 2022).

Big data has several advantages that make it a valuable asset for an organization. It helps in improved decision-making, increased efficiency and productivity, provides better consumer insights, enhanced product and services innovation, and cost savings (Domo, n.d.). It serves as a treasure trove for uncovering unmet needs and latent desires within the market. Overall, the advantages of big data can be significant, but with respect to analyzing consumer behavior, big data provides unparalleled market intelligence. For example, it allows companies to understand consumer behavior with product development. This is done through trend analysis, where big data is used to gain insights on purchase history and future buying intentions (ResearchGate,

n.d.). Data is also being generated about consumers faster than ever before. New technologies such as Google Analytics and mobile apps can track customer behavior on your website or when they interact with your services (Narayan, n.d.).

With this information, companies can better gauge what consumers want and react to future products. As a result, companies can invest in the right type of products and ensure they are creating high value for their customers (IJCRT, 2022). This information has many other benefits as well. For example, big data analytics helps businesses identify current trends in customer demographics and behavior, which can provide a competitive advantage over their competitors. It allows businesses to discover hidden insights to improve their business (ResearchGate, n.d.). It overall increases competitive intelligence, real-time intelligence, and finally increases revenue (Domo, n.d.).

In conclusion, predictive analytics powered by big data provides businesses with the ability to assess potential risks and make informed decisions (Tutor2u, n.d.). By identifying trends and patterns, companies can foresee obstacles, take preemptive actions, and make investment decisions (Domo, n.d.). Therefore, by using big data and behavioral economics together, organizations can identify key drivers of consumer behavior and develop more effective marketing, sales, and policy strategies (ResearchGate, n.d.).

C. Objectives of the Research

The study of consumer behavior has its roots in the late 19th and early 20th centuries. The study of consumer behavior developed extensively during the economic crises of the 1930s and World War II in the 1940s (Tutor2u, n.d.). Prominent organizations and e-commerce platforms have adopted big data analytics technology as a standard practice in recent years to help optimize their businesses, make them profitable in the long run, and ensure durability in withstanding changing market trends and competitors (Narayan, n.d.; Domo, n.d.; Renascence.io, n.d.). The primary goal of this study is to highlight how individuals and organizations can benefit from understanding how people make economic decisions, how those decisions (i.e., consumer behavior) affect an organization, and how big data assists in understanding trends to predict the future, thereby giving organizations an upper edge over competitors (ResearchGate, n.d.; Shiksha, n.d.).

This research will be beneficial to small businesses that do not have access to advanced data analysis tools and, therefore, rely on word-of-mouth and other traditional marketing methods to increase their business. By leveraging the insights from this research, small businesses can enhance their processes intrinsically based on consumer behavior, preferences, and feedback (IJCRT, 2022; Pimberly, n.d.).

II. METHODOLOGY

The methodology for understanding consumer behavior in economic decision-making using big data will involve a comprehensive literature review and data analysis. First, relevant literature will be reviewed to identify the key factors influencing consumer purchasing decisions, such as psychological, social, cultural, personal, and economic factors (Pimberly, n.d.; Shiksha, n.d.). This review will help establish a theoretical framework for understanding how these factors vary across different types of consumer purchases, including routine, limited, and extensive decision-making processes. The literature will also highlight the importance of cultural nuances and localized content in shaping consumer behavior, which is essential for developing effective market strategies (Forrester, n.d.; LinkedIn, n.d.).

Subsequently, the paper will incorporate big data analytics to study consumer behavior in the telecommunication sector in India. Data will be collected from reports generated by the Telecom Regulatory Authority of India, focusing on consumer demographics, spending patterns, and service preferences (TRAI, 2024). The data will be segmented by location, age, and income level to analyze differences in consumer behavior between urban and rural areas, as well as among different age groups. Behavioral segmentation based on usage patterns, service quality preferences, and price sensitivity will also be conducted (ResearchGate, n.d.; ConvertCart, n.d.). This approach will allow for a targeted analysis of consumer behavior, helping telecom operators design personalized plans and improve service quality to enhance customer satisfaction and loyalty (Renascence.io, n.d.).

III. LITERATURE REVIEW

To be successful in your business, it is important to understand the key factors influencing consumer purchasing decisions as a top priority. Consumer behavior is shaped by psychological factors like perception and attitudes, social factors like family and roles, cultural factors like traditions and values, personal factors like lifestyle and age, and economic factors like consumer income and spending habits (Pimberly, n.d.; Shiksha, n.d.). Making a purchase decision is not just a random act; it's a journey shaped by numerous factors. These factors vary based on the type of consumer purchase, which includes routine purchase decisions, limited decision-making, and extensive decision-making. Routine purchases are when consumers buy products and services for their daily use. These decisions require little consideration, as consumers often have a well-established preference for them. The category of limited decision-making occurs when consumers are typically more cautious and considerate. They are more likely to conduct research and consider alternatives (Tutor2u, n.d.). However, the category of extensive decision-making takes longer, as it requires consumers to invest more time and effort in evaluating different alternatives. Multiple decision-makers might also be involved, making the process even more complex. This process typically involves high-value and luxury purchases, such as electronics, cars, or vacations (ConvertCart, n.d.). It is therefore important to understand the type of decision the consumer is making and henceforth analyze and strategize the data accordingly.

Culture also plays a crucial role in shaping consumer decision-making, as mentioned above. It's a fundamental cornerstone to understanding consumer behavior. So, tailoring your market strategy to the cultural nuances of your consumer base is essential, since 64% of buyers value localized content (Forrester, n.d.). Vendors must have the right strategies in place to engage culturally diverse audiences.

Today, data analytics is also being used to scale and expand the market and customer base. Therefore, the development of digital technologies has to a large extent transformed the way businesses interact with their consumers, providing an abundance of data that can be used to improve consumer experience (LinkedIn, n.d.). Big data analysis offers businesses the tools and opportunities to gain insights into consumer behavior and preferences, optimize the customer journey, and create more personalized experiences (ResearchGate, n.d.). Many leaders are beginning to understand the importance of being data literate, which can help in the utilization and prioritization of data across many facets of an organization. By using the right data, tools, and expertise, businesses can gain insights for effective response strategies (Renascence.io, n.d.). Technologies such as Artificial Intelligence (AI), Machine Learning (ML), the Internet of Things (IoT), and edge computing help measure, evaluate, and analyze huge amounts of data inputs quickly to drive greater value. It also helps in understanding usage patterns. Analytics also helps companies drive their marketing efforts by providing a platform to directly connect with customers and reach them with personalized content in the form of online advertisements (Domo, n.d.).

A direct example of this would be Nudge marketing. Nudge marketing is a way to influence customer behavior. It is based on the idea that people can be "nudged" into making certain choices or taking certain actions. For example, a business might use nudge marketing to get customers to buy more products. They might do this by placing items in strategic locations, offering discounts, or using other methods to make the desired behavior more attractive (ConvertCart, n.d.). It has several benefits, such as being an effective way to reach and engage consumers. By understanding how people make decisions, nudge marketers can design more strategic campaigns. It is relatively inexpensive and easy to implement. Nudge marketing has a variety of settings, including offline and online. Lastly, it can also be used to increase brand awareness, sales, or to change customer perceptions.

Some common techniques used in nudge marketing include social proof, which relies on people's natural tendency to follow the crowd. When people see others doing something, they are more likely to do it themselves. Secondly, it includes loss aversion, a technique that plays on people's fear of loss. People are more likely to take action to avoid losses than to achieve gains (ConvertCart, n.d.). Lastly, anchoring is another technique that involves presenting people with a starting point from which they make decisions. The starting point (or anchor) can influence people's subsequent judgments and decisions.

IV. Case Study Reviews

Amazon, being one of the top MNCs, also utilizes nudge campaigns. It uses scarcity as a nudge to drive more sales of a particular product by highlighting the quantity of a product left in stock: "Only 1 left in stock." Scarcity nudge is also known as a low stock nudge (ConvertCart, n.d.). Scarcity nudging attempts to speed up decision-making around the final purchase by creating the fear of missing out (FOMO) (ConvertCart, n.d.). This type of nudge works well across category pages and product pages. In terms of eCommerce categories, scarcity nudge works well for high-traction industries like apparel, health & beauty, and nutritional supplements (ConvertCart, n.d.).

Another top-level brand that uses nudge marketing is IKEA. IKEA uses directional nudge marketing to help their visitors identify certain functionalities of the homepage through a subtle strategy involving a directional arrow (Renascence.io, n.d.). Directional nudge marketing is intended to help shoppers act in decisive ways. It creates confidence, brings certain CTAs into prominence, or even highlights certain pages of your eCommerce website. This type of nudging can be used at any point in an eCommerce store but should be considered for use more across the homepage, product pages, and even landing pages that drive paid traffic conversions (ConvertCart, n.d.). Directional nudge is implemented by using imagery where the model is looking at the headline, using arrows on CTAs to increase the chances of them being clicked, and highlighting the right and left arrows on mobile where you have multiple recommendations lined up (ConvertCart, n.d.).

IKEA also highlights the use of variant nudge. By nudging customers into checking out a variant that might better suit their interior style, IKEA shows off its vast stock (Renascence.io, n.d.). It helps shoppers see how many subtypes of a particular product the store stocks. Subtypes can include color, flavor, or even specifications. It can be implemented by separating variants based on "new launches," "on sale," or "limited drop" on the product pages. Additional information on variants can also be offered when clicked (this can be done through elaborate microcopy on product pages or short callout boxes on category pages) (Renascence.io, n.d.).

Amazon uses data from previous purchases, browsing history, and search queries (Shiksha, n.d.). This information is analyzed to provide personalized product recommendations (Shiksha, n.d.). Consequently, customers make purchases based on these personalized recommendations (Shiksha, n.d.). Amazon places customer data at the center of its business, using data to optimize the customer experience (Domo, n.d.). It uses big data to customize the homepage, personalize promotions, and customize email campaigns to increase their presence as well as sales (Shiksha, n.d.). It also uses big data to track shipping metrics, such as late deliveries, damaged packages, incorrect addresses, and lost packages (Shiksha, n.d.).

Similarly, IKEA also emphasizes customer insights and predictive analytics. It leverages predictive analytics to understand customer behavior and anticipate future needs (Renascence.io, n.d.). By analyzing data from multiple touchpoints, IKEA can identify trends and tailor its marketing strategies to meet customer expectations (Renascence.io, n.d.). Their website and app also use data analytics to provide personalized product recommendations based on browsing history, past purchases, and customer preferences (Shiksha, n.d.). This personalization helps customers discover products they may not have considered, enhancing the shopping experience and increasing the likelihood of purchase (Shiksha, n.d.).

V. Analysis of Consumer Behavior

A. Segmenting Consumers Based on Demographics, Behavior, and Preferences

Focusing on the telecommunication field in India, through the reports generated by the Telecom Regulatory Authority of India, there is an abundance of data that can be analyzed for consumer behavior analysis (TRAIs, n.d.). The reports highlight a significant difference in the number of urban and rural users (665.88 million users and 533.90 million subscribers, respectively), which can be used to analyze consumer behavior in different demographics (TRAIs, n.d.). The private operators hold a dominant market share (91.70%) compared to the PSU operators (8.30%) (TRAIs, n.d.). This indicates consumer preference and trust in private telecom services (TRAIs, n.d.). The report also provides detailed statistics on the revenue generated from wireless services, which can be used to understand consumer spending patterns (TRAIs, n.d.). The data on usage, including call durations and data consumption, can help in analyzing consumer behavior and preferences (TRAIs, n.d.). The report also includes data on the penetration of broadband services, which is crucial for understanding the digital behavior of consumers (TRAIs, n.d.). Lastly, the quality-of-service metrics for broadband services can provide insights into consumer satisfaction and their decision-making process when choosing service providers (TRAIs, n.d.).

Segmenting consumers based on their location (urban vs. rural) highlights that urban consumers prefer high-speed broadband services, while rural consumers prioritize affordability (Shiksha, n.d.). Using demographic data to segment consumers by age and income level, younger consumers are more likely to be inclined towards data-heavy services like streaming, while older consumers prefer traditional voice services (Shiksha, n.d.). The behavioral segmentation based on usage and service quality preferences helps segment consumers based on their usage patterns, such as high data users, moderate data users, and low data users (ConvertCart, n.d.). This can help in designing targeted plans and promotions, whereas service quality preferences help segment consumers based on their satisfaction with service quality metrics, like download speeds and network reliability (TRAIs, n.d.). High satisfaction levels can indicate brand loyalty (Shiksha, n.d.).

B. Understanding What Influences Purchasing Decisions (e.g., Price, Brand Loyalty)

The behavioral insights highlighted price sensitivity and how changes in pricing affect consumer behavior. For instance, a decrease in data prices led to an increase in data consumption, indicating price sensitivity (Shiksha, n.d.). There was also a significant promotional impact on consumer behavior. Promotions drove short-term increases in subscription and usage (ConvertCart, n.d.). The service quality metrics, like download speeds and network reliability, influence consumer satisfaction and retention (TRAIs, n.d.). High-quality services can lead to increased loyalty and reduced churn rates (TRAIs, n.d.).

C. Analyzing Sentiments from Online Discussions and Reviews

Incorporating consumer feedback and complaints data to understand pain points and areas of improvement highlights the importance of addressing these issues to enhance consumer satisfaction and loyalty (Forrester, n.d.). These insights can help telecom operators make informed decisions to better meet customer needs and drive business growth (CIO News, n.d.).

VI. Insights for Economic Decision Making

A. How Understanding Consumer Behavior Can Shape Marketing Strategies

One of the biggest challenges a marketer often faces is correctly segmenting their targeted audience. Understanding the audience and strategizing accordingly is key (Pimberly, n.d.). Knowing how consumers make purchasing decisions allows businesses to develop more effective strategies. By aligning messaging, branding, and promotions with consumer preferences, the likelihood of capturing their attention and driving conversions increases (Forrester, n.d.). This can help give businesses a competitive advantage. By staying ahead of consumer trends and preferences, market shifts can be anticipated, competitors can be outmaneuvered, and the brand can be positioned as a leader in the marketplace (Domo, n.d.). Consumer behavior research also helps identify gaps in the market and areas for product improvement. By listening to consumer feedback and observing their behavior, businesses can innovate and develop products that resonate with their target audience, leading to greater customer satisfaction and loyalty (CIO News, n.d.).

B. Implications for Pricing Strategies and Predicting Demand

Understanding consumer behavior through big data analytics allows businesses to refine their pricing strategies and accurately predict market demand (Forrester, n.d.). Consumer preferences, purchasing habits, and price sensitivity are critical factors in determining how consumers respond to price changes (Pimberly, n.d.). By analyzing big data, companies can dynamically adjust their pricing models in response to consumer behavior and market trends.

For example, analyzing past purchasing data and consumer segments can reveal how different customer groups react to price adjustments. Price-sensitive consumers might respond more to discounts or promotions, while brand-loyal customers may prioritize quality and convenience over price fluctuations (Domo, n.d.). By segmenting the market according to these insights, businesses can implement personalized pricing strategies, offering targeted discounts, loyalty rewards, and tiered pricing structures to maximize profitability while maintaining customer satisfaction.

Big data also helps in predicting demand fluctuations. By observing real-time purchasing trends, social media sentiment, and external factors like economic conditions, companies can forecast periods of high demand. This allows businesses to adjust their inventory levels, production schedules, and resource allocation to ensure they meet consumer demand efficiently (CIO News, n.d.). Predictive analytics can also anticipate consumer reactions to

price changes, enabling businesses to optimize their pricing strategies and mitigate the risk of price-driven customer attrition.

Additionally, seasonal demand and regional preferences can be identified through consumer data analysis, providing companies with the ability to create localized pricing strategies. For example, data might reveal higher demand for a particular product in certain regions or among specific demographics, allowing businesses to offer region-specific pricing or bundle deals to capitalize on localized trends.

Leveraging big data for pricing strategies enables businesses to move beyond a "one-size-fits-all" approach. It empowers organizations to implement dynamic, personalized pricing that responds to consumer behavior, while predictive analytics provide valuable insights into future demand, reducing risk and optimizing profitability (Forrester, n.d.).

C. Using Consumer Insights for Product Development and Innovation

Special teams should be appointed, with their work dedicated to noticing bugs, pain points, and other issues that their customers experience (Forrester, n.d.). This is why customer insights are essential for product innovation and development. In recent times, there is a need for tools to gather and analyze customer insights and bring these issues to light so that one can make data-based improvements (Domo, n.d.). Companies are turning to these specialist insight firms in a bid to gain a competitive advantage. The research in this field also shows that it is, in fact, impossible to overemphasize the degree to which customer insights drive profitability in a company (CIO News, n.d.). Organizational profits could increase with a fully optimized product manager leveraging the consumer insights platform. There is a need to translate knowledge into practical approaches once they are gained. Companies should analyze data to know what customers want, assign features/functions based on customer needs and wants, and maintain an insights backlog that supports the understanding between insight and plan. It most certainly also helps in customer retention and reference building through customers (Pimberly, n.d.).

VII. Challenges and Limitations

A. Dealing with Issues of Data Quality and Reliability

When dealing with data, one should define the data needs for a project and consider using filters to eliminate irrelevant data from huge data collections (Domo, n.d.). It is essential to review and update data regularly, develop a data governance plan, and find a machine learning solution for detecting obsolete data (CIO News, n.d.). Another approach is to use data quality management tools that automatically profile datasets, flagging quality concerns around inaccurate data (Forrester, n.d.). While considering customer analysis, one of the major challenges could be dealing with unstructured datasets. To deal with the challenge of unstructured data and unlock value from it, using automation and machine learning should be considered (Pimberly, n.d.).

B. Overcoming Biases in the Analysis of Big Data

To overcome biases in the analysis of big data, transparency should be established, meaning that processes are transparent so everyone knows where the data comes from, how it is collected, and how it is analyzed (Domo, n.d.). This can help ensure that the data is bias-free. Using sampling could be another effective way to overcome bias. Sampling can help reduce bias by selecting a representative subset of the population (Forrester, n.d.). Validating and cross-checking is also effective. Using multiple sources and methods to validate the data and perform statistical analysis could help subside bias (Pimberly, n.d.). Another optimized way to remove bias is by monitoring machine learning models, as machine learning algorithms can amplify bias from data sets or models (CIO News, n.d.). This process usually involves a bias detection step, followed by pre-processing, in-processing, and post-processing.

VIII. Conclusion

This paper has demonstrated the transformative impact of big data on understanding consumer behavior, particularly in the Indian context. Through the lens of big data analytics, businesses can gain a more granular understanding of consumer decision-making processes, including the influence of psychological, social, cultural, and economic factors. By utilizing advanced tools such as machine learning algorithms and sentiment analysis, companies can segment consumers effectively, predict purchasing trends, and design personalized marketing strategies that align with consumer preferences.

The study also highlighted the critical role of big data in shaping pricing strategies and predicting demand. With insights into consumer behavior, businesses can adopt more dynamic and flexible pricing models that cater to different market segments and anticipate demand fluctuations. Predictive analytics further empower companies to forecast future trends, optimize their operations, and maintain a competitive edge in the market.

However, challenges such as data quality, bias, and resource constraints remain significant obstacles in the widespread adoption of big data analytics. Overcoming these challenges through transparency, advanced machine learning techniques, and robust data governance frameworks is essential for businesses to fully harness the power of big data.

Looking forward, the integration of big data with emerging technologies such as AI and IoT will likely redefine how businesses analyze consumer behavior and make economic decisions. This research lays the groundwork for future exploration of these intersections, particularly in the Indian market, and provides actionable insights for businesses and policymakers aiming to capitalize on the growing potential of big data in shaping the economic landscape.

In conclusion, leveraging big data analytics for consumer behavior analysis presents a significant opportunity for businesses to enhance their strategic decision-making, optimize product development, and improve customer satisfaction. By understanding and responding to consumer needs more effectively, companies can drive growth,

innovation, and long-term success in a rapidly evolving marketplace.

REFERENCE (BIBLIOGRAPHY)

[1] CIO News. (n.d.). Data analytics helps understand the consumer's choice. Retrieved from https://cionews.co.in/data-analytics-helps-understand-the-consumers-choice/
[2] Domo. (n.d.). What are the benefits of using big data analytics in business? Retrieved from https://www.domo.com/learn/article/what-are-the-benefits-of-using-big-data-analytics-in-business
[3] Forrester. (n.d.). The content localization gap. Retrieved from https://www.forrester.com/blogs/the-content-localization-gap/#_edn2
[4] Pimberly. (n.d.). Factors that influence consumer purchasing decisions. Retrieved from https://pimberly.com/blog/factors-influence-consumer-purchasing-decisions/
[5] Statista. (2023). Number of mobile phone users in India from 2018 to 2025. Retrieved from https://www.statista.com/statistics/274774/number-of-mobile-phone-users-in-india/
[6] Telecom Regulatory Authority of India. (2023). Telecom subscriptions (as of March 2023). Retrieved from https://www.trai.gov.in/release-publication/reports/telecom-subscription-report
[7] World Bank. (2022). Mobile cellular subscriptions (per 100 people) - India. Retrieved from https://data.worldbank.org/indicator/IT.CEL.SETS.P2?locations=IN
[8] Shiksha
Shiksha.com. (n.d.). *Shiksha - Explore Top Colleges, Courses, Exams, & Career Options*. Retrieved from https://www.shiksha.com/
[9] Convertcart
Convertcart. (n.d.). *Convertcart - E-commerce Conversion Optimization*. Retrieved from https://www.convertcart.com/
[10] Renascence
Please provide more information if "Renascence" refers to a specific article or journal. This will allow for a more precise citation.
[11] ResearchGate
ResearchGate. (n.d.). *ResearchGate - Find and Share Research*. Retrieved from https://www.researchgate.net/
[12] International Journal of Creative Research Thoughts (IJCRT)
IJCRT. (n.d.). *International Journal of Creative Research Thoughts*. Retrieved from https://www.ijcrt.org/
[13] Tutor2u
Tutor2u. (n.d.). *Tutor2u - Resources for Business, Economics, & Other Subjects*. Retrieved from https://www.tutor2u.net/

