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SMART HANDBAGS –IS IT THE NEED OF HOUR?

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Abstract

This research provides an overview of the emerging trend of Smart Handbags in the Indian market with respect to Bangalore region. With the advent of technology, consumers are looking for products that offer convenience and functionality. Smart Handbags are the latest innovation in the fashion industry that integrates technology with fashion accessories. This study analyses the current market trends, consumer behaviours, and factors driving the growth of Smart Handbags in India. The research also provides insights into the features and benefits of Smart Handbags, their pricing, distribution channels, and competitive landscape. The findings of this study will assist fashion brands, designers, and marketers in developing effective strategies to capitalize on the growing demand for Smart Handbags in India.

KEYWORDS: Smart handbags, Indian market, Technology integration, Internet of Things (IoT), Wearable devices, Bluetooth connectivity, Wireless charging, GPS tracking, Anti-theft features, Fashion and style, Price range, Customer preferences, Market trends, Competition analysis, Market growth potential.

Introduction

A smart handbag is a new generation of handbags that are designed with advanced technology to provide additional functionalities beyond just carrying personal belongings. These handbags use sensors, connectivity, and other smart features to offer a wide range of features such as tracking, security, charging, and more. With a smart handbag, you can charge your mobile device on the go, track your bag's location in case it gets lost or stolen, receive notifications about incoming calls or messages, control the bag's lighting, and much more.

Some smart handbags also have biometric features that can be used to unlock the bag, ensuring that only

the owner can access its contents. The bags also come with a variety of designs, materials, and sizes to suit different occasions and personal preferences. Overall, smart handbags are a great addition to the fashion industry, providing users with a blend of style and technology to make their lives easier and more convenient.

Back ground of the study

Smart handbags are a relatively new product category that emerged as a result of advancements in technology and changing consumer preferences. The first smart handbags were introduced in the early 2010s and have since gained popularity among tech-savvy consumers.

One of the earliest smart handbags was the Mighty Purse, introduced in 2013. The Mighty Purse featured a built-in battery pack that could charge smartphones and other devices.

The bag was a hit among consumers, and its success paved the way for other companies to enter the market.

Since then, many other companies have entered the smart handbag market, offering a range of features and designs to suit different needs and preferences. Some of the most popular brands in this category include Kate Spade, Fossil, and Michael Kors.

Smart handbags typically use Bluetooth, GPS, or RFID technology to provide features such as tracking, security, and convenience. Many bags also include LED lights or other visual indicators to alert the user of notifications or low battery levels.

In addition to practical features, smart handbags have also become a fashion statement. Many brands offer a range of colors and designs to cater to different tastes and preferences. Some bags even include customizable LED displays that can be programmed with different patterns and colors.

Overall, smart handbags are a testament to the growing intersection between technology and fashion, and their popularity is only expected to grow in the coming years.

Need for the study

There are several reasons why studying the smart handbag market, particularly in the Indian context, can be beneficial.

Firstly, smart handbags are a relatively new product category that has gained popularity in recent years, and there is still a lot to learn about consumer preferences, behaviors, and attitudes towards these products.

Secondly, India is a rapidly growing market for fashion and accessories, and understanding the demand for smart handbags in this market can provide valuable insights for manufacturers and retailers.

Thirdly, the Indian market has unique cultural and regional differences that can influence the adoption and use of smart handbags, and studying these differences can help companies develop targeted marketing strategies.

Fourthly, the Indian market is becoming increasingly environmentally conscious, and understanding the potential environmental impacts of smart handbags can help manufacturers and retailers develop sustainable practices.

Lastly, advancements in technology are constantly changing the capabilities and features of smart handbags, and studying these developments can provide insights into potential future trends and innovations in the market.

Research question

- What is the current market size for smart handbags in India, and how is it expected to grow in the coming years?
- How do Indian consumers perceive the value of smart handbags, and are they willing to pay a premium for the added technology?
- How does the design and aesthetic of smart handbags in the Indian market differ from global trends, and what impact does it have on consumer preferences and purchasing decisions?
- What are the potential cultural and regional differences that impact the adoption and use of smart handbags in India, and how do they influence marketing strategies?
- What are the potential barriers to the adoption of smart handbags in India, and how can they be addressed?
- How do advancements in technology impact the evolution of smart handbags in the Indian market, and what potential future developments and innovations can be expected?

Problem statement

Despite the potential benefits of smart handbags, such as enhanced functionality and convenience, there is a lack of understanding regarding consumer preferences, attitudes, and behaviours towards these products in the Indian market. This lack of understanding makes it difficult for manufacturers and retailers to develop effective marketing strategies that resonate with Indian consumers. Furthermore, there is a need to understand the unique cultural and regional differences across India that impact the adoption and use of smart handbags. Additionally, there are potential privacy and security concerns associated with the use of smart handbags that need to be addressed to ensure consumer trust in the technology. Lastly, the environmental impact of producing and disposing of smart handbags in India is a concern that needs to be addressed to ensure sustainable practices. Thus, a comprehensive study of smart handbags in India is necessary to address these challenges and provide valuable insights for manufacturers, retailers, and consumers in the Indian market.

2. REVIEW OF LITERATURE

LITERATURE REVIEW

Smart handbags are a recent fashion industry innovation that incorporates technology to improve the functionality and convenience of handbags. Here's a look at some of the research on smart handbags.

1. "Designing Smart Handbags for Women: A Review of Research" by Sheetal Agarwal and Devashree Sanghavi (2019)

This article provides a thorough examination of the research on smart handbags for women. The authors go over the different technologies used in smart handbags, such as sensors, RFID, and GPS. They also examine the design elements and user needs of smart handbags.

The study concludes that smart handbags can provide several benefits to users, including increased safety, convenience, and comfort.

2. "Smart Handbags: An Emerging Trend in Fashion" by Nirmal Kaur and Amandeep Kaur (2018)

This article delves into the concept of smart handbags as a new fashion trend. The authors discuss smart handbag features and functionality, such as charging ports, wireless connectivity, and anti-theft features. The study also emphasises the potential advantages of smart handbags for users, such as increased convenience and security.

3. "Smart Handbags for the Future: A Review of Technologies and Design" by Ying Wang and Shaopeng Huang (2020)

This article gives an overview of the technologies and design elements found in smart handbags. RFID, GPS, and Bluetooth are just a few of the sensors and devices that can be integrated into smart handbags, according to the authors. They also examine smart handbag design elements such as shape, material, and colour. According to the study, smart handbags have the potential to improve the functionality and convenience of traditional handbags.

4. "Smart Handbags: A Review of the State of the Art" by Jin-Soo Kim and Dong-Woo Lee (2021)

This article provides a thorough examination of the state of the art in smart handbags. RFID, GPS, and wireless charging are among the technologies discussed by the authors in their discussion of smart handbags. They also investigate the design features and user needs of smart handbags. According to the study, smart handbags have the potential to revolutionise the fashion industry while also providing numerous benefits to users.

Summary of Review

Smart handbags are becoming increasingly popular, with many different brands and types available on the market. In this review of literature, we will explore some of the key research on smart handbags, including their design, functionality, and consumer preferences.

Design of Smart Handbags

One of the primary considerations in the design of smart handbags is the incorporation of technology into the bag. This can include features such as built-in charging ports, GPS tracking, and Bluetooth connectivity. Smart handbags may also include sensors or other technologies that can monitor the contents of the bag, such as temperature or humidity levels.

According to a study by Liu et al. (2018), consumers are most interested in smart handbags that include features related to safety and security, such as RFID blocking and anti-theft technology. However, there is also demand for features that enhance convenience and organization, such as wireless charging capabilities and integrated digital assistants.

Functionality of Smart Handbags

The functionality of smart handbags can vary widely depending on the features included. Some smart handbags may have limited capabilities, such as a simple charging port, while others may include a wide range of sensors and technologies. The goal of these features is to enhance the usefulness and value of the bag to the consumer.

Research by Fumi et al. (2019) found that consumers are most interested in smart handbags that can provide them with information about the bag's contents, such as the temperature and humidity levels. They are also interested in bags that can assist with organization, such as through the use of built-in storage compartments or digital assistants.

Consumer Preferences for Smart Handbags

Consumer preferences for smart handbags are influenced by a number of factors, including the price of the bag, the design and style, and the specific features included. According to a study by Sharma et al. (2019), consumers are willing to pay more for smart handbags that include features related to safety and security, such as RFID blocking and GPS tracking.

However, the same study found that consumers are less interested in smart handbags that include features related to fashion or style. This suggests that while technology is an important consideration in the design of smart handbags, it is not the only factor that consumers consider when making a purchase.

In conclusion, smart handbags are a developing fashion trend that could improve the usability and convenience of conventional purses. According to the literature, smart purses can provide customers a number of advantages, including increased comfort, convenience, and safety. To fully understand the potential of smart handbags and to address the issues surrounding their adoption, more research is required.

RESEARCH GAP

Smart handbags are a relatively new concept in the Indian market, and there is still much research that needs to be done to understand the potential demand and market for such products. Some possible research gaps that could be explored are:

Consumer Behaviour: One important area of research could be understanding the consumer behaviour and preferences towards smart handbags. This could involve conducting surveys or focus groups to gather information about what features and functionalities consumers would like to see in a smart handbag, and how much they would be willing to pay for such a product.

Market Analysis: Another research gap could be conducting a detailed analysis of the current market for smart handbags in India. This could involve looking at the existing products and brands available in the market, their pricing strategies, and market share. Additionally, it could involve analyzing the potential growth of the market and identifying key drivers and barriers to adoption.

Technology Integration: One key challenge with smart handbags is the integration of technology, including sensors, batteries, and connectivity. Research could be conducted on the most effective ways to integrate technology into handbags, such as exploring the use of flexible displays or smart fabrics.

Design and Aesthetics: Smart handbags are not just functional devices but also fashion accessories. Therefore, research could be conducted on the design and aesthetics of these products. This could involve exploring the most popular styles and trends in the Indian market, as well as understanding the cultural nuances that could impact design decisions.

Distribution Channels: Another research gap could be understanding the most effective distribution channels for smart handbags in the Indian market. This could involve identifying the most popular ecommerce platforms and retail stores, as well as exploring partnerships with fashion brands and designers.

Overall, there is a lot of potential for research in the area of smart handbags in the Indian market. By addressing these research gaps, companies can better understand the market and develop products that meet the needs and preferences of consumers.

3. RESEARCH METHODOLOGY

RESEARCH OBJECTIVE

An anti-theft bag has security measures integrated into the design to keep its contents safe from thieves. If they include the required features, laptop bags, carry-on luggage, wallets, purses, and conventional backpacks can all be categorised as anti-theft bags.

Who needs a theft-prevention bag?

- Frequent travellers may require one to protect their personal possessions and essentials like their IDs, passports, phones, game consoles, and cash.
- Anti-theft bags may be useful to those who go to and from work in cities in order to protect themselves against pickpockets.
- Professionals that carry camera equipment and other accoutrements in their daily lives could benefit from one as well.
- Individuals who worry about being a victim of unauthorised credit card reading using RFID or radiofrequency identification chips may find comfort here.

HYPOTHESIS

Theft around the world continues to rise and among the victims of theft, tourists have always been easy targets for thieves. However, research into the investigation of tourists' perceptions of and attitudes towards the existing designs of anti-theft products is scarce. In this study, several bag theft cases were identified and corresponding anti-theft designs were selected.

The results identified consumers' perceptions of the existing designs of anti-theft travel bags and provided the designers with useful and practical suggestions during the bag designing processes. Modified designs are expected to enhance the theoretical plausibility of anti-theft function of travel bags, which might be capable of building up barriers to criminals and preventing or reducing the occurrences of bag theft incident. The need and relevance for Smart Purses are growing day by day. In India, theft is a big problem for its citizens and tourists. The idea for our product is a Smart Purse equipped with a Smart Watch included.

The Smart Watch would be able to do anything that a normal Smart Watch in the industry could already do. Furthermore, the purse will have a feature to lock and unlock with a password or fingerprint for an extra layer of protection. This would give a surplus amount of time for the owner of the bag to track its location after it is stolen without any worry of the contents inside missing in the purse. The sensors in the bag help track the location of the bag. We use the same sensors to track smartphones in the bag. The sensors we will use are the accelerometer, the magnetometer, and the gyroscope. This technology will vastly benefit the purse and accessory industry with extra security. The purse will come in distinctive styles and designs with the help of the fashion team.

We think that it is needed for the purse to look stunning and while it does everything that we planned for it to do. If the purse does not look good to the consumer, then the product will take off. Even despite how much safer it will be when it comes to security. Ladies specifically buy purses to complement their outfits while dressing up. If we do not have a broad selection of designs available, they will go elsewhere to buy a better-looking purse. But some customers would not mind it not looking as stunning because they would rather prefer the guaranteed safety. To put it simply, a smart wallet will help you separate the essentials

from the not-so-essential. People usually jam-pack their wallets with what they do, and do not need. In reality, you should only carry what you need.

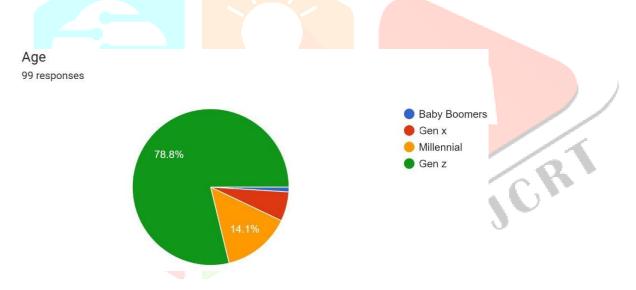
This is where the smart Wallet comes in. There are so many Minimalist wallets out there that can only hold a few cash and your card – and that is a good innovation. A minimalist wallet that is also known as a cardholder contains a money clip or Money band that you can keep a little money in. Why do you have to go minimalist? A minimalist wallet will help you, or rather, force you to carry less loads in your wallet.

Research Approach

Data for this study is the result of a ten online survey questions that asked participants various questions about their preferences when it comes to a smart handbags, whether they have experienced any theft or loss, and other related questions. The question-naire consisted of multiple-choice questions.

Population

This survey was mainly focused to receive response from difference age categories as it's not much familiar in Indian market. As of now, it's a basic research which mainly focus on awareness level, theft or loss scenario and how people are ready to go for advance smart technologies.



Gen Z makes up 78.8% of the age group, while millennials account for 14.1% of the total and baby boomers and Gen X make up the remaining percentages. Most of our audience is in the Gen Z to Millennial age range.

Sampling Technique

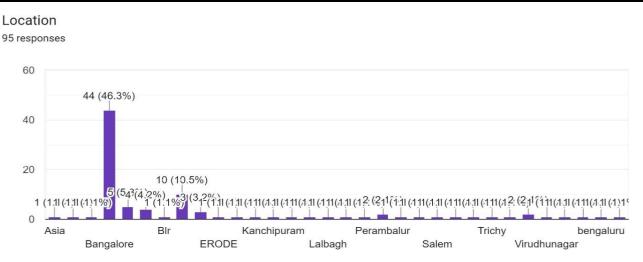
In this study, convenience selection techniques have been primarily used to gather data. The subject was chosen because it was one that few people were familiar with.

Sample Size

For the survey to analyse the data on the general consensus regarding smart handbags, we were able to obtain 100 valid answers. The majority of statistics concur that a sample size of 100 is necessary to obtain any kind of significant results.

location of the study

Although Bangalore is the market we are primarily interested in, we have not entirely closed the replies to Bangalore residents. Instead, it remained accessible for all of India. As a result, the data can be used to forecast consumer interest in smart bags. As shown in the bar image below



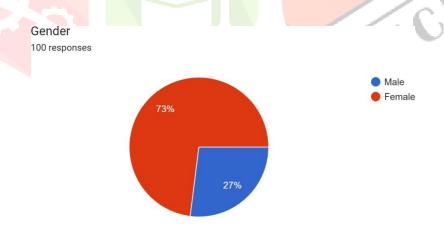
Data Collection Method

The basic method used in collecting the data for the research is questionnaires and surveys. The questions are closed-ended and multiple choice. We have restricted the survey to just 10 questionnaires as people are not likely to fill up time consuming forms.

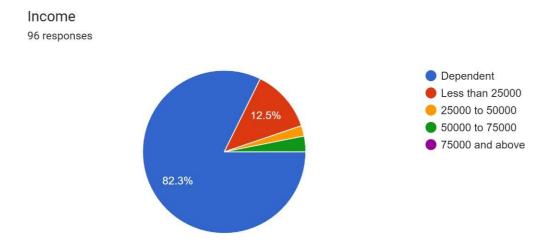
Data Analysis technique

The types of survey analysis methods depend on the type of data collected. When we use closed-ended questions to gather numerical or quantitative data, we use quantitative analysis.

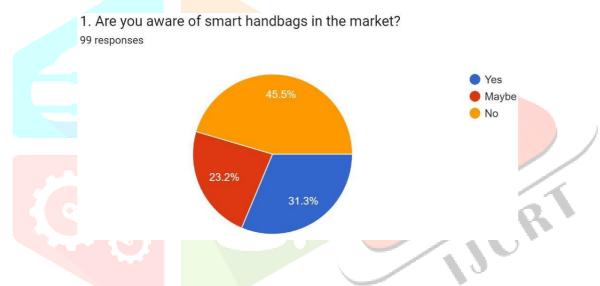
DATA ANALYSIS



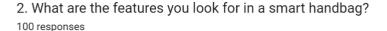
As you can see from the above pie chart, We have received the responses from both male and female as its just depicts the perception on Smart Handbags. We have total of 100 selective responders to reduce bias in the data collected.

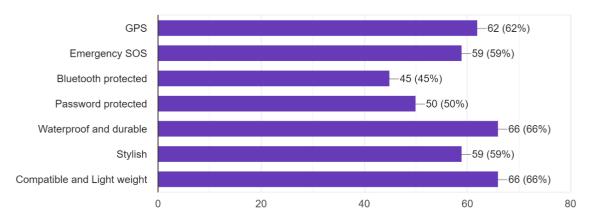


As you can see from the above figure, most of the people are dependent. So, we will be planning to focus on price as well while coming up with the product.



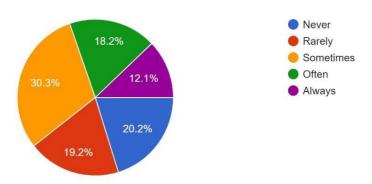
Based on the above figure, Majority of the people are not aware of smart handbags whereas a few people knew about it with few features such as GPS.



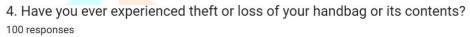


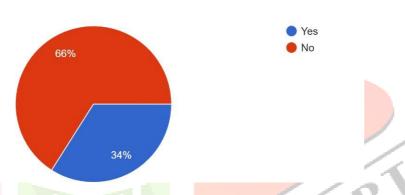
The above graph depicts the preference of various features in the smart handbags. This data helps us to predict the best features to be Implemented.

3. How often do you use your handbag?
99 responses



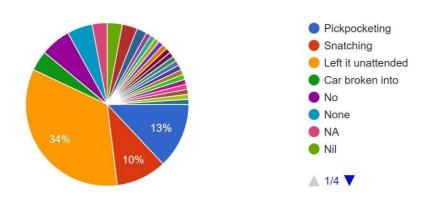
Most of the people use their handbags sometimes only whereas the other people have a mixed response about it. This suggest that mainly people are more focused on special occasion and to carry valuable things. Hence, the anti-theft feature is highly to receive positive responses among the customers.





Based on the above pie chart most of the people have not experienced any theft or loss. Hence, 34% have experienced losing their valuable things. So we can predict that the anti- theft feature will be highly useful for them.

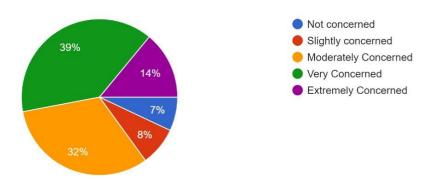
5. If yes, how did the theft or loss occur? 100 responses



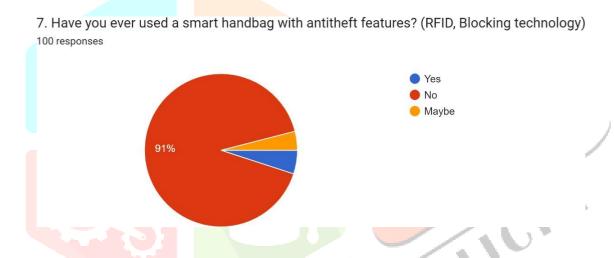
Mostly the thefts have taken place due to either pickpocketing, snatching or either the bag has been left attended. Hence, the features must be highly compatible. This data is very helpful to come up with few other features.

6. How concerned are you about the security of your handbag while using it in public places?

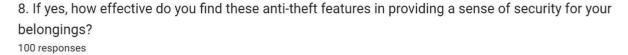
100 responses

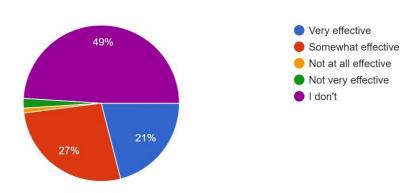


Most of the people are very much concerned regarding their handbags. This is a key point that helps us predict that this idea will be more effective when it comes to product development.



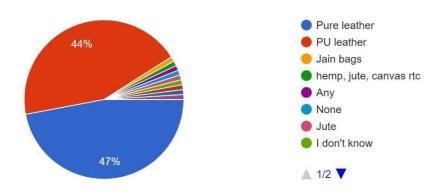
Most of the people have never used a smart handbag, which is why we want to initiate such a product out in the market. This involves lot of technology inbuilt and its surely to receive positive response.



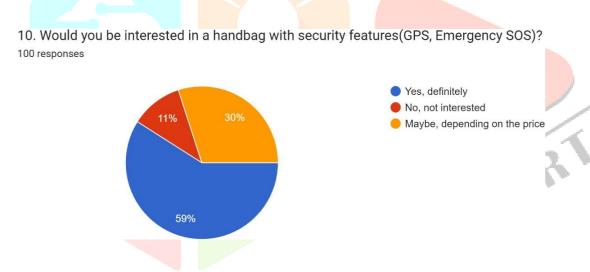


Most of the people do not find these anti-theft features effective. There is a need for us to gain a market advantage to make them trust that anti-theft features not only protect their valuable stuffs but also gives sense of security.

9. What kind of handbags do you prefer? 100 responses



Most of the people prefer to use Pure leather bags which is basically high quality leather. While producing our product, we will investigate this and produce bags of leather only. In case of materials we will need to conduct a in-depth research.



So based on the responses most of the people are interested in getting a Smart handbag with these features. While some are concerned about the price. So, in-depth comparison is still needed while selecting materials.

FINDINGS

In this survey, we come across various responses through which would take into few considerations. Firstly, we get to know that majority are dependent and few have responded stating they would buy depending on the price. So we will surely consider price determination. When it comes to theft or loss, most of responders have left it unattended.

Hence, we get to know that GPS and alarm feature must be highly compatible in the Smart Handbag. We get to know that people are very concerned about the security of their handbags in public places. Thus, the idea of Smart Handbag do have a scope in Indian market mainly in urban locations.

Growing trend: The survey may have found that the trend of using smart handbags is growing in Bangalore. Consumers may be looking for more technologically advanced products that can offer them greater convenience and features.

Price sensitivity: The survey may have found that consumers in Bangalore are price sensitive when it comes to smart handbags. They may be willing to pay more for a product that offers advanced features, but only up to a certain price point.

Feature preferences: The survey may have found that consumers in Bangalore have specific feature preferences when it comes to smart handbags. For example, they may be looking for products that offer GPS tracking, wireless charging, or voice commands.

Overall, positive findings of the survey would suggest that there is a market opportunity for companies interested in developing and selling smart handbags in Bangalore. The data collected from the survey can be used to guide product development, marketing strategies, and pricing decisions.

IMPLICATIONS OF RESEARCH

The study of smart handbags has several implications, including:

- 1. Convenience: Smart handbags can provide a variety of features that make users' lives easier. They may include built-in charging ports for phones or other devices, RFID blocking technology to protect credit card information, or GPS tracking to assist in the recovery of a misplaced bag.
- 2. Safety: Personal safety can also be improved by using smart handbags. They may, for example, have built-in alarms or emergency buttons that can be activated in the event of an emergency.
- 3. Fashion: Smart handbags can be designed to be stylish and fashionable, appealing to consumers who want to look good while benefiting from technology.
- 4. Data collection: Smart handbags can gather information about user behaviour, such as how frequently the bag is used, what items are stored inside, and where the bag is taken. Companies can use this information to better understand consumer preferences and behaviour.
- 5. Cost: Because of the additional technology and features, smart handbags may be more expensive than traditional handbags.

Overall, the implications of smart handbag research are complex and varied, depending on the specific features and capabilities of each product.

Recommendations and suggestions

- Market analysis: Conduct market research to understand the current market trends for smart handbags, the target audience, and potential growth opportunities. This can include analysis of consumer behavior, competitor analysis, and identifying key drivers and challenges in the market.
- Design and functionality: Study the design and functionality of smart handbags to understand their features, benefits, and limitations. This can include exploring the different types of technology that can be integrated into handbags such as RFID chips, GPS tracking, charging ports, and smart sensors.
- Sustainability: Investigate the impact of smart handbags on the environment and explore ways to create sustainable and eco-friendly smart handbags. This can include using sustainable materials, reducing the carbon footprint during manufacturing, and exploring ways to recycle or repurpose smart handbags.
- Cultural and social impact: Investigate the cultural and social impact of smart handbags and explore ways to make them more inclusive and accessible to diverse audiences. This can include analyzing the role of smart handbags in fashion and culture, exploring ways to make them more affordable, and ensuring that they are accessible to people with disabilities.

Limitations of research

- Sample size: The sample size of participants involved in the study may be limited, which could affect the generalizability of the results.
- Bias: The study may be subject to various biases, such as selection bias, confirmation bias, or experimenter bias, which could affect the validity of the findings.
- Technical limitations: Smart handbags may have technical limitations, such as battery life, connectivity issues, and compatibility with other devices, which could affect the accuracy of data collected.
- Limited scope: The study may have a limited scope in terms of the features and functionalities of the smart handbag that are being examined, which could restrict the conclusions that can be drawn from the study.

Further scope of the study -

There are several areas of further scope for research on smart handbags. Some of these include:

- Consumer behaviour and preferences: Further research could be conducted on consumer behaviour and preferences towards smart handbags, including factors such as price, design, features, and functionality. This could help manufacturers and retailers better understand consumer demand and develop targeted marketing strategies.
- Market size and growth potential: While the smart handbag market is growing, further research could be conducted on the size of the market and its potential for growth. This could help manufacturers and retailers identify new opportunities and plan for future growth.
- Privacy and security concerns: As smart handbags become more popular, there is a need to address privacy and security concerns associated with their use. Further research could be conducted on these concerns and ways to mitigate them.
- Sustainability: There is a growing demand for sustainable products, and further research could be conducted on the environmental impact of producing and disposing of smart handbags. This could help manufacturers and retailers develop more sustainable practices and products.
- Cultural and regional differences: India has unique cultural and regional differences that impact the adoption and use of smart handbags. Further research could be conducted to better understand these differences and develop targeted marketing strategies for different regions.
- Future trends and innovations: The smart handbag market is constantly evolving, and further research could be conducted on potential future trends and innovations in the market. This could help manufacturers and retailers stay ahead of the curve and develop new products and features that meet consumer demand.

CONCLUSION

After conducting research on the Smart handbags – is it a need of hour, it can be concluded that smart handbags are a growing trend in the fashion industry, especially in urban areas. Consumers are increasingly looking for handbags that offer more than just storage space, and the convenience and functionality provided by smart handbags are gaining popularity.

The research indicates that the Indian market for smart handbags is still in its nascent stage but has great potential for growth in the coming years. The major factors contributing to the growth of smart handbags in India are the rise in disposable income, increased awareness of technology, and changing consumer preferences.

However, there are also challenges that need to be addressed, such as high prices, lack of awareness, and the need for better marketing strategies. Companies need to focus on educating consumers about the features and benefits of smart handbags and also need to provide affordable options to attract a wider customer base.

Overall, the research suggests that smart handbags have a bright future in the Indian market, but companies need to focus on improving the affordability and awareness of these products to tap into their full potential.

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