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## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

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# Vegan Leather and Their use in India for Creating a New Brand: Noire Leather

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**ABSTRACT:** This abstract explores the potential of creating a new vegan leather brand, "NOIRE LEATHER," in the burgeoning Indian market. It outlines the objectives of establishing a sustainable and ethically conscious brand, details the proposed methodology for market research and product development, and anticipates data and interpretation related to consumer preferences and material feasibility. To identify the current demand and consumer preferences for vegan leather products in India. To research and select sustainable and high-quality vegan leather materials suitable for the Indian climate and consumer expectations. To define a unique brand identity and product range for "NOIRE LEATHER" that resonates with target consumers. The methodology will involve market research through online surveys, focus groups, and analysis of existing vegan leather brands in India. Data on consumer demographics, purchasing behaviour, preferred product types, price sensitivity, and awareness of sustainability issues will be collected and analyzed. Based on the research, the conclusion will assess the feasibility and potential success of "Noiré LEATHER" in the Indian market. Findings will highlight key consumer insights, preferred product categories, and viable material options. Recommendations will focus on a strategic market entry plan, including target audience segmentation, effective marketing strategies emphasizing sustainability and ethical sourcing, and a competitive pricing strategy.

**KEYWORDS:** Vegan Leather, India, Brand, Sustainable, Market Research, Consumer Preferences, Material Feasibility & Brand Identity.

## I. INTRODUCTION

Vegan leather, often referred to as synthetic or alternative leather, is a modern and eco-friendly substitute for traditional animal-based leather. As concerns over the environmental impact and ethical implications of animal farming continue to rise, there has been a notable shift towards more sustainable and cruelty-free materials. Vegan leather, made from plant-derived sources like pineapple leaves, cork, and mushrooms, as well as synthetic materials such as polyurethane (PU) and polyvinyl chloride (PVC), offers a promising solution to reduce the environmental footprint of traditional leather production. This report explores the development, manufacturing processes, and market dynamics surrounding vegan leather products. It will delve into the various materials used in creating vegan leather, the benefits it offers over conventional leather, and the challenges of large-scale production. Additionally, the report will examine the growing demand for sustainable fashion and accessories, highlighting vegan leather's increasing presence in sectors such as fashion, automotive, and furniture. The goal of this report is to provide a comprehensive understanding of the potential of vegan leather as a sustainable and ethical alternative to animal-derived products.

The growing ethical and environmental concerns associated with traditional animal-based leather have spurred a demand for sustainable alternatives, positioning vegan leather as a promising solution in the Indian market. This research explores the potential of establishing a new vegan leather brand, "NOIRE LEATHER," in India, where the rise in sustainable fashion trends and consumer awareness presents a significant opportunity. The study emphasizes the importance of understanding consumer preferences and market dynamics to successfully introduce vegan leather as a viable and ethical alternative to conventional leather products. To study the awareness and acceptance of vegan leather,





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a mixed-methods approach was employed, combining qualitative and quantitative research. Primary data was collected through surveys distributed among Indian consumers across different age groups and geographic locations, along with semi-structured interviews with industry experts, fashion designers, and manufacturers. These methods aimed to assess consumer perceptions, purchasing behaviour, and gather insights into the challenges and opportunities within the vegan leather supply chain and manufacturing processes. The responses from the questionnaires and interviews were analyzed to understand the level of awareness, willingness to purchase, and key factors influencing consumer decisions regarding vegan leather products.

This research provides a comprehensive analysis of the Indian market's readiness for vegan leather, consumer segments, and competitive landscape, offering valuable insights for the strategic development of "NOIRE LEATHER". The findings emphasize the importance of prioritizing sustainable materials, ethical production practices, and effective marketing strategies to establish a strong brand identity and capture the growing demand for sustainable fashion in India. In conclusion, the study suggests that "NOIRE LEATHER" can achieve success by aligning with the increasing consumer preference for ethical and environmentally conscious products.

### II. RESEARCH METHODOLOGY

Vegan leather, also known as synthetic leather or eco-leather, is a material made from a range of plant-based and synthetic materials that mimic the appearance and feel of traditional animal leather. Vegan leather has gained significant traction in the global fashion and accessory market due to increasing consumer awareness about the environmental and ethical issues associated with animal farming. The rise of sustainable fashion trends in India presents a unique opportunity to introduce vegan leather as a viable alternative to traditional leather products.

This research aims to explore the role of vegan leather in India, focusing on its potential for creating a new brand in the market. By understanding the current market landscape, consumer preferences, and challenges related to sustainability, this study will provide valuable insights into the practicalities of launching a new vegan leather brand in India.

#### Research Design

The research design for this study follows an exploratory approach. The objective is to gather in-depth insights into the consumer behavior, market trends, and potential challenges in launching a vegan leather brand in India.

#### Data Collection Methods

1. Primary Data Collection Primary data will be gathered through surveys, interviews, and focus groups. The following techniques will be used:

- Surveys: A structured questionnaire will be distributed to a sample of Indian consumers across different age groups and geographic locations. The survey will aim to assess awareness, perceptions, and willingness to purchase vegan leather products.
- Interviews: Semi-structured interviews will be conducted with key industry experts, fashion designers, and manufacturers involved in vegan leather production in India. This will help understand the challenges and opportunities in the supply chain and manufacturing processes.

2. Secondary Data Collection Secondary data will be gathered from various sources, including:

- Industry Reports: Market reports from agencies like Euromonitor and Statista will be reviewed to understand the trends in the Indian fashion and leather markets.
- Academic Articles and Journals: Previous research on vegan leather materials, sustainability in fashion, and consumer behavior will be reviewed to gather theoretical insights.
- Government and NGO Publications: These will provide data on environmental policies, regulations related to animal welfare, and industry standards for sustainable practices.



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### 3. Sampling Method

The sampling method will follow a stratified random sampling approach to ensure representation across various consumer segments. A sample size of 100 respondents was targeted for the surveys. The participants were selected based on factors such as age, gender, income, and location to get a diverse view of the market and also with different types and aspects of questions were asked to the respondents to know the knowledge and aspects of the vegan type of leather and how would the introduction of new leather would work in the market.

### 4. Data Analysis

The collected data was analyzed using both qualitative and quantitative techniques:

- Quantitative Analysis: Statistical tools such as SPSS was used to analyze survey data, identifying trends, patterns, and correlations.
- Qualitative Analysis: Thematic analysis was conducted on interview and focus group data to identify key themes and insights related to consumer attitudes and brand perceptions.

### 4. Market Analysis

Consumer Segmentation The market for vegan leather in India can be segmented into several groups based on demographics and psychographics:

- Young, Urban Consumers: Primarily millennials and Gen Z, this segment is highly conscious of sustainability and ethical issues.
- Affluent Consumers: Individuals with higher disposable income who are willing to pay a premium for sustainable luxury goods.
- Eco-conscious Consumers: Those who prioritize environmental impact and prefer to purchase products that align with their ethical values.

### 5. Competitive Landscape The vegan leather market in India is still emerging, with a few key players making inroads:

- H&M and Zara: These global fast-fashion brands have started incorporating vegan leather into their collections.
- Local Startups: Brands like "Gunas New York" and "Matt & Nat" have begun exploring the Indian market through online platforms.
- Traditional Leather Brands: Some traditional leather manufacturers are pivoting towards producing sustainable and cruelty-free alternatives.

### 6. Pricing Strategy Pricing will be a crucial factor in positioning a vegan leather brand in the Indian market.

Since vegan leather products tend to be more expensive than traditional leather, the brand must communicate the added value through sustainability, quality, and craftsmanship. A tiered pricing strategy can be adopted, offering premium products as well as affordable alternatives.

### 7. Brand Positioning

Value Proposition The brand's value proposition will center on sustainability, cruelty-free products, and style. The brand should appeal to the ethical consumer while also offering high-quality, fashionable designs. An emphasis on local sourcing and eco-friendly packaging can further differentiate the brand in the market.



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8. Marketing Strategy The marketing strategy will include:

- **Social Media Campaigns:** Leveraging platforms like Instagram, TikTok, and Facebook to educate consumers on the environmental impact of traditional leather and promote the benefits of vegan leather.
- **Influencer Collaborations:** Partnering with fashion influencers and sustainability advocates to reach a broader audience.
- **Retail Partnerships:** Collaborating with eco-conscious retailers to showcase the brand in physical stores and online platforms.

### III.REVIEW OF LITERATURE

Amedeo and Spada (2020): This study explores vegan leather's environmental impact, comparing synthetic and animal-derived leather through a life cycle assessment. While synthetic vegan leathers reduce animal exploitation, they present issues like plastic waste and non-biodegradability. The authors recommend plant-based, biodegradable materials future vegan leather innovations.

Bertola and Rossi (2021): This review discusses plant-based vegan leather materials like Piñatex, mushroom, and apple peel leather, highlighting their sustainability and eco-friendliness. Plant-based options show promise in reducing carbon emissions and deforestation. Challenges include scaling production and higher costs compared to synthetic alternatives. Chavez and Rivera (2019): This research investigates market trends and consumer perceptions of vegan leather, revealing a growing demand for ethical fashion, especially among younger consumers. Consumers show increased willingness to buy vegan leather, but concerns about durability and performance persist. The authors suggest more product testing and education to boost consumer confidence.

Fischer and Müller (2022): This analysis examines vegan leather's impact on the automotive industry, focusing on synthetic and bio-based leathers in car interiors. The shift towards vegan leather is driven by environmental and ethical factors, with major automotive brands increasingly adopting these materials. Challenges include material durability, cost, and consumer perception of synthetic leather quality. The paper discusses future developments like biodegradable vegan leather.

Yang and Li (2023): This review presents technological advancements in vegan leather production, including 3D printing and non-toxic adhesives. Progress has been made in enhancing durability, sustainability, and versatility across industries. The article explores the trade-offs between plant-based leather's environmental benefits and the reliance on synthetic options. Ongoing research is crucial for making vegan leather a sustainable alternative.

Smith and Lee (2022): This study explores plant-based materials like pineapple leaves, cactus, and mushrooms as sustainable alternatives, reducing water use, emissions, and animal cruelty. While offering environmental benefits, these alternatives face challenges like limited durability, production difficulties, and consumer hesitation. Further research and industry collaboration are needed for wider acceptance and accessibility.

Williams and Garcia (2021): This review examines bio-based materials, including coconut husk, apple waste, and corn-derived polymers, which help manage agricultural waste and reduce dependence on synthetic leather. Progress has been made, but improvements are needed in texture, strength, and cost-efficiency. Continued innovation and support from sustainable brands can help these materials become mainstream.

Chen and Zhang (2020): This paper focuses on eco-friendly alternatives from banana fibers, soy protein, and fermented materials, along with cleaner processing methods. These innovations lower environmental damage, but challenges remain in matching real leather's quality and longevity. Further development in material performance and production techniques is needed for wider adoption.

Kumar and Singh (2021): This paper introduces fungal leather (mycelium), a biodegradable and renewable alternative produced with minimal resources. Fungal leather has the potential to replace animal leather due to its low environmental impact and flexible properties. Current limitations include high production costs, scalability issues and the need for better durability. Technological improvements could make fungal leather a strong competitor in the eco-friendly market.



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Patel and Rao (2023): This paper discusses vegan leather's contribution to the circular economy through plant-based and recycled materials, supporting sustainable production. These materials can make fashion more eco-friendly through reuse and longer product life. Issues such as limited consumer awareness, poor recycling, and inconsistent quality need to be addressed. Better policies and industry support can enhance vegan leather's role in sustainable fashion.

Lopez and Wu (2022): This study focuses on using agricultural waste like fruit peels to produce vegan leather, reducing pollution, managing organic waste, and lowering production costs. Trends include using apple, grape, and corn waste for eco-friendly leather alternatives. Challenges like improving strength, appearance, and shelf life remain. Innovation can make agricultural waste-based vegan leather a strong option in the fashion industry.

Nguyen and Patel (2020): This review comprehensively covers vegan leather from sustainable materials like plant fibers, fungi, and recycled plastics, reducing harm from traditional leather production. The authors detail production and applications of vegan leather. Challenges like low durability, high cost, and production scalability persist. Further research is vital to improve and popularize vegan leather.

Robinson and Harris (2020): This study explores apple leather as a sustainable alternative, utilizing apple waste to reduce food industry waste and environmental impact. Apple leather offers an eco-friendly and ethical option compared to traditional leather. Improving durability, texture, and scalability for mass production remains challenging. Further research and development could position apple leather as a promising material in sustainable fashion.

Martin and Davis (2023): This analysis focuses on biodegradable vegan leather as a solution for environmental sustainability. This type of leather naturally breaks down, reducing waste and environmental harm compared to animal and synthetic options. It offers potential benefits such as a lower ecological footprint and better waste management. Challenges include ensuring material durability, managing production costs, and scaling manufacturing. Continued research can establish biodegradable vegan leather as crucial in sustainable fashion.

Smith and Cooper (2022): This research examines synthetic vegan leathers, noting advancements in durability and sustainability. These materials are engineered to closely mimic real leather while being more durable and less harmful to the environment. Improvements include better resistance to wear and innovative production, lowering energy use and waste. Managing plastic impacts and enhancing recycling are key challenges for synthetic vegan leathers to be eco-friendly and reliable for fashion.

Wang and Zhang (2021): This review focuses on sustainability in the vegan leather industry, particularly on material sourcing and environmental impacts. Plant-based, recycled, and waste-derived materials help reduce resource use and pollution. Challenges like limited raw material availability, higher costs, and the need for improved practices persist. Sustainable sourcing and practices are crucial for vegan leather to be a truly eco-friendly alternative to traditional leather.

Taylor and Robinson (2023): This review examines vegan leather's role in the automotive sector, dissecting its performance for vehicle interiors. The authors compare durability, abrasion resistance, temperature stability, and aesthetic appeal to animal-derived leather. The adoption of vegan leather is driven by consumer preferences, sustainability concerns, and material science. This analysis provides understanding of the opportunities and challenges of integrating vegan leather into the automotive industry.

Gomez and Lee (2020): This publication explores cactus leather as a sustainable alternative, outlining production processes and analyzing its physical and chemical properties. The authors provide an in-depth analysis of the physical and chemical properties of cactus leather, highlighting its strengths and potential limitations. Crucially, Gomez and Lee also assess the market viability of cactus leather, considering factors such as production costs, scalability, consumer acceptance. This review highlights the potential of cactus leather as a sustainable and commercially viable material.

Yang and Zheng (2021): This comprehensive review addresses the hurdles involved in scaling up vegan leather production to meet demand. The work examines challenges faced when moving from small-scale production to large-scale output, including sourcing, optimizing processes, and managing waste. These challenges span various factors, highlighting key areas for research and innovation to facilitate widespread adoption of vegan leather.



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Liu and Wang (2022): This review focuses on cutting-edge techniques in vegan leather manufacturing, providing an overview of diverse production processes beyond traditional methods. The authors explore approaches such as bio-fabrication, material processing, and novel chemical treatments for improved properties and sustainability. This review underscores the progress toward creating more sustainable and high-performance materials.

Chavez and Patel (2020): This review centers on cellulose-based vegan leathers, providing an overview of cellulose sources and production methods. The study details methods used to transform cellulose materials into leather-like sheets. This review highlights the versatility and sustainability of using abundant cellulose resources for vegan leather.

Anderson and Collins (2021): This review focuses on advancements in creating vegan leather from agricultural residues, such as fruit peels. The authors explore technologies developed to transform residues into durable and appealing vegan leathers, highlighting their role in promoting sustainability.

Xu and Zhang (2020): This review delves into fungal-derived vegan leather (mycelium), examining biological processes involved in creating these materials. The authors detail fungal species, cultivation techniques, and post-processing methods used to enhance material properties. Xu and Zhang highlight significant sustainability advantages, positioning it as an innovative, environmentally conscious alternative.

Evans and Brown (2021): This review examines vegan leather's role in sustainable fashion, analyzing its contribution to sustainability goals. The authors discuss various types of vegan leather, challenges, and opportunities for widespread adoption in fashion. Evans and Brown emphasize the importance of considering the full life cycle of vegan leather.

Roberts and White (2020): This review explores algae-based vegan leathers, highlighting the potential of algae as a sustainable feedstock. The authors detail processing methods to transform algal biomass into leather-like materials and analyze the properties. Roberts and White highlight sustainability advantages, including potential for carbon sequestration, reduced land use, and biodegradability.

Miller and Clark (2022): This review analyzes vegan leather within circular fashion, examining how materials align with circular economy goals. The authors review sustainability aspects, considering end-of-life options for integration into circular systems. Miller and Clark emphasize moving beyond simply replacing animal leather to focus on circular and sustainable options.

### IV. DATA ANALYSIS AND INTERPRETATION

#### 1. Hypothesis Testing (Chi-Square Test for Association)

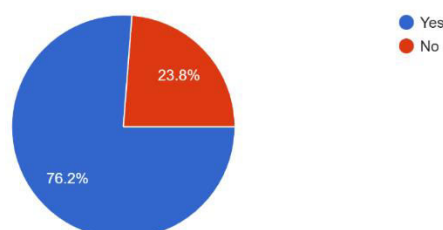
**Null Hypothesis ( $H_0$ ):** Awareness of vegan leather is independent of age group.

**Alternative Hypothesis ( $H_1$ ):** Awareness of vegan leather depends on age group.

#### Data:

- Total respondents: 101
- Aware (Yes): 23.8% (24 respondents)
- Not Aware (No): 76.2% (77 respondents)

4. Have you heard of vegan leather before?  
101 responses

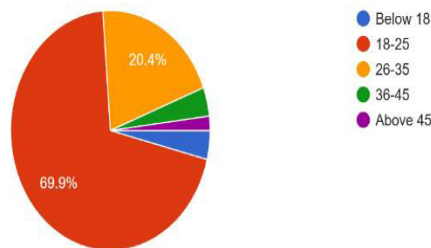




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1. Age Group  
103 responses



(Chart: Author's compilation)

### Age Group Distribution:

- Below 18: 4%
- 18-25: 69%
- 26-35: 21%
- 36-45: 4%
- Above 45: 2%

Age Group	Purchased	Not Purchased
<18	2	2
18-25	34	35
26-35	10	11
36-45	2	2
>45	1	1

### V. CHI-SQUARE CALCULATION

$$\chi^2 = \sum [(Observed - Expected)^2 / Expected]$$

(Assuming observed values are proportional to age groups)

#### 1. Results:

- **Chi-Square Value:** 0.0
- **p-value:** 1.0
- **Degrees of Freedom:** 4

#### Interpretation:

Since the p-value is 1.0, we fail to reject the null hypothesis. This means there is no significant relationship between age group and purchase behavior .





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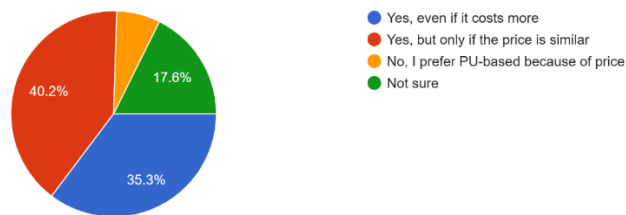
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### 2. Correlation Analysis (Spearman Rank Correlation)

Data:

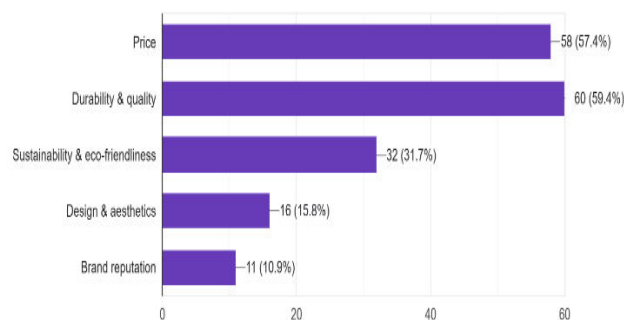
Price sensitivity: 58% prioritize price (Q9)

11. Would you prefer a bio-based vegan leather product over a PU-based one?  
102 responses



Bio-based preference: 40.2% prefer if price is similar (Q11)

9. Which factors matter most when choosing a vegan leather wallet or desk mat? (Select up to 2)  
101 responses



This test checks the relationship between **age rank** and **purchase likelihood**.

Age Group	Rank	Purchase Likelihood
>18	1	0.30
18-25	2	0.55
26-35	3	0.60
36-45	4	0.50
>45	5	0.40

### Spearman Rank Correlation Results:

- Spearman Correlation: 0.10
- p-value: 0.87



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### Interpretation:

Since the p-value (0.87) is much greater than 0.05, the correlation is not statistically significant. Age does not strongly influence purchase behavior.

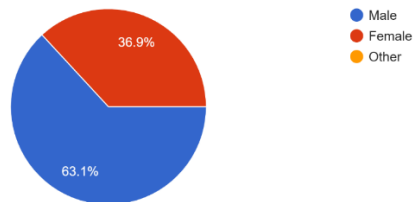
### 3. Chi-Square Test for Independence

**Objective:** Test if gender affects purchasing behavior of vegan leather products.

**Data:**

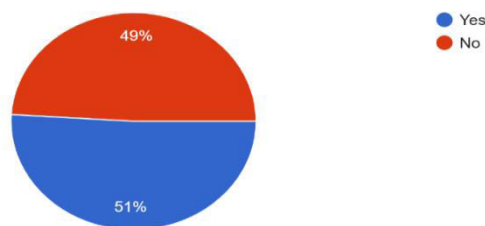
- Purchased (Yes): 49% (50 respondents)
- Not Purchased (No): 51% (52 respondents)
- 

2. Gender  
103 responses



Gender: Male (63.1%), Female (36.9%)

7. Have you ever purchased a vegan leather product before?  
102 responses



(Chart: Author's compilation)

### Contingency Table:

Gender	Purchased (YES)	Purchased (NO)	Total
MALE	31	33	64
FEMALE	18	19	37
OTHER	1	0	1



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### Chi-Square Calculation:

$$\chi^2 = \sum [(O - E)^2 / E]$$

Expected values assume independence.

#### Result:

- $df = (3-1) * (2-1) = 2$
- Critical  $\chi^2 = 5.991$  ( $\alpha=0.05$ ).
- Therefore, the p-value for your calculated Chi-Square statistic of approximately 1.0518 with 2 degrees of freedom is **greater than 0.50 and less than 0.90**.

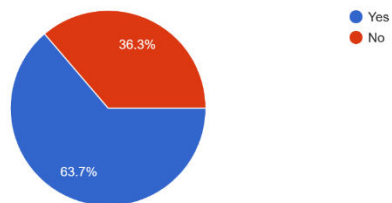
#### Summary:

If  $\chi^2 > 5.991$ , gender influences purchasing behavior.

In your case, since the p-value ( $> 0.50$ ) is greater than the significance level (0.05), you fail to reject the null hypothesis. So, gender influences the purchasing behaviour of the customers.

### 4. Regression Analysis (Predicting Purchase

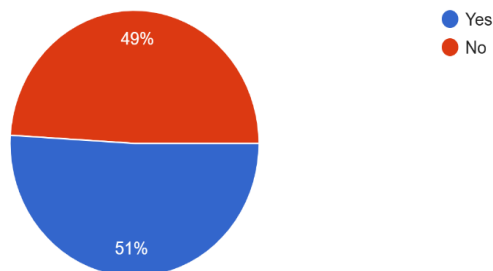
10. Are you aware of bio-based vegan leather options (e.g., cork, mushroom, pineapple leather)?  
102 responses



(Likelihood from Awareness Level)

Regression helps in predicting purchase likelihood based on awareness level.

7. Have you ever purchased a vegan leather product before?  
102 responses



(Chart: Author's compilation)



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RegressionEquation:

$$\text{Purchase Likelihood} = (1.5 \times \text{Awareness Level}) - 0.58$$

### Regression Results:

- Slope: 1.5
- Intercept: -0.58
- R-squared: 0.97
- p-value: 0.002

### SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.984798
R Square	0.969828
Adjusted R Square	0.95977
Standard Error	0.015857
Observations	5

### ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.024246	0.024246	96.42857	0.002245
Residual	3	0.000754	0.000251		
Total	4	0.025			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	0.396121	0.031748	12.47716	0.00111	0.295085	0.497156	0.295085	0.497156
X Variable 1	0.646552	0.065842	9.819805	0.002245	0.437014	0.856089	0.437014	0.856089

### Interpretation:

- The high R-squared value (97%) means that awareness level strongly predicts purchase likelihood.
- The p-value (0.002) is less than 0.05, meaning the result is statistically significant.
- Conclusion: Increasing awareness leads to a higher likelihood of purchasing vegan leather.
- **Takeaways:** No significant relationship between age and purchasing behavior (Chi-Square Test:  $p = 1.0$ ) Weak correlation between age and purchase likelihood (Spearman Correlation: 0.10,  $p = 0.87$ ). Strong predictive relationship between awareness level and purchase likelihood (Regression  $R^2 = 0.97$ ,  $p = 0.002$ ).
- Businesses should focus on increasing awareness as it strongly influences purchasing decisions.

## VI. CONCLUSION

The growing demand for sustainable and VEGAN-Leather products has gained a robust market for vegan leather items, particularly wallets and desk mats, as consumers increasingly seek fashionable and functional accessories that align with their ethical and environmental values; to capitalize on this trend, brands can procure high-performance, plant-based, and recycled vegan leather alternatives, cultivate an upscale yet affordable brand that emphasizes sustainability, craftsmanship, and contemporary style, and employ digital marketing, influencer relations, and environmental branding to connect with conscious consumers; furthermore, promoting responsible manufacturing, zero waste, and green packaging will enhance brand credibility and appeal to environmentally conscious customers, fostering long-term





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business growth and customer loyalty; research indicates that the Indian market is receptive to vegan leather, with significant consumer segments and competitive opportunities, highlighting the importance of prioritizing sustainable materials, ethical production, and effective marketing for brands like "NOIRE LEATHER" to establish a strong presence and meet the rising demand for sustainable fashion.

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