INTRODUCTION

In the ever-evolving landscape of business, few developments have been as transformative as the rise of e-commerce. The internet has revolutionized the way goods and services are bought and sold, offering businesses unprecedented opportunities for growth and expansion. However, with this shift from traditional brick-and-mortar stores to online platforms comes a new set of challenges and complexities. In this digital age, success in e-commerce is not merely about having an online presence; it's about leveraging data and analytics to gain insights, make informed decisions, and drive sustainable business growth. E-commerce has become an integral part of modern business, offering unparalleled opportunities for growth and expansion in the digital realm. However, with the proliferation of online transactions comes the need for businesses to leverage data-driven insights to navigate the complexities of the online marketplace effectively. This comprehensive study aims to delve into the realm of e-commerce analytics, exploring its significance in driving business growth and sustainability.

OBJECTIVES

- To define the scope of e-commerce analytics for business growth.
- To explore theoretical frameworks and methodologies.
- To find how e-commerce analytics help business growth in various aspects.
- To provide actionable recommendations for businesses.
- To summarize key findings and insights for application in practice.

SCOPE

- Define e-commerce analytics and provide an overview of its importance in driving business growth.
- Explore the theoretical foundations and methodologies of e-commerce analytics, including descriptive, diagnostic, predictive, and prescriptive analytics.
- Examine the methodologies, techniques, and tools used in e-commerce analytics, such as data collection methods, data analysis techniques, and machine learning algorithms.
NEED

- The proliferation of online transactions and interactions generates vast volumes of data, highlighting the critical need to leverage analytics for meaningful insights and decision-making.
- Businesses that effectively utilize e-commerce analytics gain a significant competitive advantage by understanding customer behaviour, market trends, and operational efficiency.
- E-commerce analytics enables businesses to personalize customer experiences by tailoring products, services, and interactions based on data-driven insights into customer preferences and behaviours.

REVIEW OF LITERATURE


Watson, C (2019) E-commerce Analytics: Leveraging AI for Business Growth - Watson discusses the utilization of artificial intelligence in e-commerce analytics to drive business growth, including AI-powered chatbots, recommendation engines, and predictive analytics models.

Wang, Y (2020) Harnessing Data Insights: E-commerce Analytics for Sustainable Business Growth - Wang emphasizes the importance of leveraging data insights from e-commerce analytics for sustainable business growth, covering topics such as customer lifetime value, market segmentation, and predictive modelling.

Larson, I (2021) E-commerce Analytics: Personalization Strategies for Business Growth - Larson explores personalization strategies derived from e-commerce analytics to drive business growth, covering topics such as product recommendations, targeted promotions, and content personalization.

Mike, P (2022) E-commerce Analytics: Driving Business Growth Through Behavioural Analysis - Mike discusses how behavioural analytics can drive business growth in e-commerce, covering topics such as clickstream analysis, session replay, and user behaviour segmentation.
HYPOTHESIS-1 CHI SQUARE TEST

▷ Null Hypothesis (H0): There is no significant relationship between the utilization of e-commerce analytics and business growth.

▷ Alternative Hypothesis (H1): There is a significant positive relationship between the utilization of e-commerce analytics and business growth.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
<th>df</th>
<th>Asymptotic Significance(2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Chi-Square</td>
<td>30.865a</td>
<td>12</td>
<td>.001</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>29.724</td>
<td>12</td>
<td>.001</td>
</tr>
<tr>
<td>N of Valid Cases</td>
<td>110</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

*11 cells (52.0%) have expected count less than 5. The minimum expected count is 12.

DATA INTERPRETATION:

Chi-square test statistics is 30.865 with 12 degree of freedom and have a significance value (p-value) of .001 which is less than the common alpha level of 0.05. This means we can reject the null hypothesis, which typically states that there is no association between the two variables.

HYPOTHESIS-2 CORRELATION

▷ Null Hypothesis (H0): There is no significant relationship between the adoption of e-commerce analytics and revenue growth in businesses.

▷ Alternative Hypothesis (H1): There is a significant relationship between the adoption of e-commerce analytics and revenue growth in businesses.
DATA INTERPRETATION:

The table shows a Pearson correlation coefficient of 0.20, The p-value (Sig. (2-tailed)) is 0.018, which is less than the significance level of 0.05. This means that the correlation is statistically significant.

FINDINGS

- Majority 70.9% of the respondents are male.
- Majority of the respondents are 27.3% from Technical Support.
- Majority 33.6% of respondents are neutral for considering e-commerce analytics is essential for driving business growth.
- Majority 25.5% of respondents feel neutral for how extent the company has implemented e-commerce analytics solutions.
- Majority 33.6% of respondents are neutrally satisfied with the effectiveness of the current e-commerce analytics tools in supporting business growth.
- Majority 22.7% of respondents believe that e-commerce analytics have not at all contributed to the overall success of the business.
- Majority 23.6% of respondents feel both confident and somewhat confident in team’s ability to interpret and utilize e-commerce analytics data effectively.
SUGGESTION

➢ Highlight the emphasis on data-driven decision-making processes within the company, showcasing how analytics drives strategic choices for business growth.

➢ Emphasize the study's focus on pinpointing specific analytics tools, techniques, or insights that act as catalysts for driving business growth within the company.

➢ Indicate a thorough examination of key performance metrics used in e-commerce analytics to measure and optimize business growth outcomes.

➢ Showcase the study's intention to assess how e-commerce analytics enhances competitive edge in the market, enabling it to thrive and expand amidst competition.

➢ Highlight the study's aim to provide actionable recommendations based on the findings, assisting in leveraging e-commerce analytics more effectively for sustained business growth.

CONCLUSION

In conclusion, this comprehensive study on e-commerce analytics for business growth underscores the pivotal role of data-driven insights in fostering sustainable expansion within modern enterprises. Through an exhaustive examination of various e-commerce analytics methodologies, tools, and strategies, it becomes evident that harnessing the power of data is not merely advantageous but imperative for staying competitive in today's dynamic market landscape. By leveraging advanced analytics techniques such as predictive modelling, customer segmentation, and sentiment analysis, organizations can gain a deeper understanding of consumer behaviour, market trends, and competitive dynamics. In conclusion, this study underscores the transformative potential of e-commerce analytics in driving business growth. By embracing a data-centric mindset and investing in robust analytics capabilities, organizations can position themselves for long-term success in an increasingly competitive digital landscape.

REFERENCES