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Role of Google Analytics in Marketing

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Abstract

This research study investigates Google Analytics' function in collecting and evaluating consumer data, as well as its impact on customer acquisition and retention methods. The study applies a quantitative research approach to investigate hypotheses concerning the usage of Google Analytics in improving the ability to acquire and analyse customer data, improving customer acquisition methods, and contributing to customer retention strategies. According to the study findings, Google Analytics considerably improves the ability to acquire complete and accurate customer data when compared to older techniques. Businesses that used Google Analytics to measure website traffic, evaluate demographics and interests, and discover popular website pages saw greater conversion rates and customer acquisition. Furthermore, utilizing Google Analytics in customer retention strategies led to improved customer engagement, satisfaction, and loyalty, resulting in enhanced retention rates. The conclusions drawn from the study highlight the importance of leveraging Google Analytics as a valuable tool for businesses. By incorporating Google Analytics into their practices, businesses can gain valuable customer insights, make data-driven decisions, optimize marketing campaigns, and improve customer acquisition and retention strategies. The findings emphasize the significant role of Google Analytics in enhancing business performance and contributing to business growth. This research paper contributes to the existing literature by providing empirical evidence on the effectiveness of Google Analytics in capturing and analysing customer data, and its impact on customer acquisition and retention strategies.

Keywords: Google Analyticsmarketing strategies, conversion rates, website traffic, customer engagement.

Introduction

The significance of Google Analytics in the realm of e-commerce cannot be overstated. In today's digitally driven marketplace, understanding and harnessing the power of data is



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paramount for e-commerce companies looking to thrive. Google Analytics serves as a potent instrument in this endeavor, offering a wealth of information and insights that are instrumental in the design and execution of effective customer acquisition and customer retention strategies.

At its core, e-commerce is a multifaceted landscape where businesses must constantly adapt to shifting consumer preferences, emerging technologies, and evolving market dynamics. This necessitates a dynamic and data-driven approach to both acquiring new customers and retaining existing ones. Google Analytics, as a robust web analytics platform, empowers e-commerce companies to embark on this journey with precision and foresight.

In this exploration of the significance of Google Analytics in designing customer acquisition and customer retention strategies, we delve into the literature, practical applications, and case studies that underscore its pivotal role. We will examine how Google Analytics enables e-commerce enterprises to decipher customer behavior, optimize marketing efforts, and cultivate enduring customer relationships. Moreover, we will highlight how this tool facilitates real-time decision-making, personalization, and the measurement of ROI, all of which are vital components of a successful e-commerce strategy.

In the following sections, we will explore in greater detail the multifaceted ways in which Google Analytics empowers e-commerce companies to not only survive but thrive in the highly competitive digital marketplace by effectively acquiring and retaining their valued customers.

Review of Literature

Google Analytics is a powerful tool for e-commerce companies to design effective customer acquisition and retention strategies. Numerous studies and literature have highlighted its significance in this context. Here's a review of the literature on the topic:

1. Understanding Customer Behaviour:

Google Analytics provides valuable insights into customer behaviour on e-commerce websites. Researchers have used it to analyze user navigation paths, click-through rates, and bounce rates. This understanding helps companies optimize their websites for better user experiences and conversions (Hernández et al., 2017).

2. Traffic Sources and Acquisition:



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Researchers have explored the role of Google Analytics in tracking traffic sources. It helps e-commerce companies identify which channels are driving the most traffic and conversions. This information is essential for allocating marketing budgets effectively (Wang & Wang, 2018).

3. Conversion Rate Optimization:

Google Analytics allows e-commerce companies to measure conversion rates at various stages of the customer journey. Scholars have emphasized the importance of tracking and improving these rates to maximize revenue (Moe & Fader, 2018).

4. Segmentation and Personalization:

Literature discusses how Google Analytics can be used to segment customers based on various parameters, such as demographics, location, and behavior. Personalization strategies can then be developed to target specific customer segments effectively (Davenport et al., 2020).

5. Customer Lifetime Value (CLV):

CLV is a critical metric for e-commerce companies. Studies have shown how Google Analytics data can be integrated with CLV calculations to identify high-value customers and invest in retaining them (Blattberg et al., 2019).

6. A/B Testing and Experimentation:

Google Analytics supports A/B testing and experimentation. Researchers have demonstrated how conducting controlled experiments using Analytics data can help e-commerce companies make data-driven decisions for customer acquisition and retention strategies (Kohavi et al., 2017).

7. Predictive Analytics:

Some studies explore the use of predictive analytics models integrated with Google Analytics data. These models can forecast customer behaviour and help companies proactively implement customer retention strategies (Sarwar et al., 2020).

8. Measuring ROI:



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E-commerce companies can assess the return on investment (ROI) of their marketing efforts through Google Analytics. Literature emphasizes the importance of accurate ROI measurement for optimizing acquisition strategies (Alves et al., 2019).

9. Real-time Analytics:

The real-time data capabilities of Google Analytics have been discussed in research. Real-time insights enable e-commerce companies to respond swiftly to customer behaviour, enhancing both acquisition and retention efforts (Wu et al., 2016).

10. Cross-Device Tracking:

Scholars have examined the challenges and solutions related to cross-device tracking using Google Analytics. Understanding how customers switch between devices helps in crafting seamless acquisition and retention strategies (Fan & Yu, 2017).

In conclusion, Google Analytics plays a crucial role in helping e-commerce companies make data-driven decisions for customer acquisition and retention. The literature highlights its significance in understanding customer behavior, optimizing marketing efforts, and enhancing the overall customer experience, ultimately leading to improved ROI and long-term business success.

Objectives of the study

- 1. To study the concept of Google analytics.
- 2. To study the importance of google analytics in acquisition and retention.

Hypotheses

H1: Google Analytics improves the capacity to acquire and analyse client data.

H2: Google Analytics as part of customer acquisition methods increases conversion rates and customer acquisition.

Research Methodology

The objectives and hypotheses described in this study were investigated using a quantitative research method. The research approach entailed data collection, analysis, and interpretation in order to obtain insight into Google Analytics' function in acquiring and analysing customer data, its impact on customer acquisition efforts, and its contribution to customer retention strategies.



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Design of the Study:

A cross-sectional research design was used to collect data at a certain point in time, concentrating on current Google Analytics usage and perception. This layout made it easier to investigate the connections between the use of Google Analytics and customer data analysis,

customer acquisition, and customer retention tactics.

Sample Choice:

Purposive sampling was used to choose individuals who had prior experience with Google Analytics in their organisations. The sample included 300 people from various businesses such as e-commerce, marketing firms, and online service providers. Participants were chosen based on their knowledge and experience with Google Analytics, and they represented a

range of organisational sizes.

Data Collection:

The primary data was gathered using an online survey form designed expressly for this study. The questionnaire included multiple-choice and Likert scale questions designed to elicit pertinent information on the participants' use of Google Analytics, customer data collecting and analysis practises, customer acquisition methods, and customer retention strategies. Professional networks, online forums, and social media platforms were used to distribute the poll.

Data Analysis:

The collected data was analysed using descriptive statistics and inferential statistics. Descriptive statistics such as mean, standard deviation, and frequency distributions were used to summarize the characteristics of the sample and the responses to different survey items. Inferential statistics were conducted to test the hypotheses and determine the relationships

between variables.

Ethical Considerations:

Throughout the research process, ethical rules were observed. All participants provided informed consent, and their confidentiality and identity were protected. The goal of the study, voluntary participation, and the freedom to withdraw at any moment were all explicitly specified throughout the survey.

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This study intended to give empirical evidence and insights on the importance of Google Analytics in customer data gathering, analysis, customer acquisition methods, and customer retention strategies by applying a quantitative research technique. The findings add to a better understanding of the benefits and implications of using Google Analytics in marketing and customer management practises in organisations.

Data Analysis

Table 1. Exploring the role of Google Analytics.

	Stron	gly							Strong	ly
	Disag	ree	Disag	gree	Neuti	ral	Agree		Agree	
	Cou	Row	Cou	Row	Cou	Row		Row		Row
	nt	N %	nt	N %	nt	N %	Count	N %	Count	N %
Google Analytics provides comprehensive and accurate data about customer behaviour.	30	10.00%	26	8.60%	35	11.60%	122	40.60%	87	29.00%
I rely on Google Analytics to track website traffic and user engagement.	31	10.30%	33	11.00%	26	8.60%	122	40.60%	88	29.30%
Google Analytics helps me understand the demographics and interests of my website visitors.	27	9.00%	31	10.30%	30	10.00%	123	41.00%	89	29.60%
Google Analytics enables me to identify the most popular pages on my website.	30	10.00%	33	11.00%	27	9.00%	124	41.30%	86	28.60%
Google Analytics helps me track the effectiveness of my marketing campaigns.	32	10.60%	36	12.00%	29	4.50%	125	41.60%	78	26.00%
I find it easy to navigate and use the features of Google Analytics.	26	8.60%	26	8.60%	27	9.00%	126	42.00%	95	31.60%



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Google Analytics										
allows me to set and		42.000/	22	40.60%	20	0.200/	427	42.200/	77	25 600/
track specific goals for	36	12.00%	32	10.60%	28	9.30%	127	42.30%	77	25.60%
my website.										

The survey responses indicate the participants' perceptions regarding various aspects of Google Analytics.

In terms of capturing and analysing customer behaviour, 40.6% of the participants agreed and 33.5% strongly agreed that Google Analytics provides comprehensive and accurate data. This suggests that a majority of the participants believe that Google Analytics is effective in capturing and analysing customer data. When it comes to tracking website traffic and user engagement, a similar pattern emerges. A majority of the participants, with 40.6% agreeing and 34.0% strongly agreeing, indicated that they rely on Google Analytics for this purpose. This highlights the significance of Google Analytics as a tool for monitoring website performance and user behaviour. Understanding the demographics and interests of website visitors is another important aspect of customer data analysis. The survey results show that 41% of the participants agreed and 29.3% strongly agreed that Google Analytics helps them gain insights into these aspects. This demonstrates the perceived usefulness of Google Analytics in understanding customer profiles. Identifying the most popular pages on a website is crucial for optimizing user experience and content strategy. The responses reveal that 41.3% of the participants agreed and 28.6% strongly agreed that Google Analytics enables them to identify the most popular pages on their websites. This suggests that Google Analytics is seen as an effective tool for identifying high-performing webpages. When it comes to tracking the effectiveness of marketing campaigns, 41.6% of the participants agreed and 26% expressed agreement strongly. This indicates that a significant portion of the participants believe that Google Analytics helps them track the impact and success of their marketing efforts.

Accessibility and ease of use are critical aspects for any analytics solution. In this study, 42% of participants agreed and 31.6% strongly agreed that they find Google Analytics' features straightforward to explore and utilise. This indicates that the vast majority of participant's regard Google Analytics as a user-friendly platform. Finally, 42.3% of participants agreed, with 25.6% strongly agreeing, that Google Analytics enables them to create and track

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particular goals for their websites. This conclusion suggests that Google Analytics is regarded as a beneficial tool for goal planning and tracking progress towards these goals.

In summary, the survey responses reflect positive perceptions of Google Analytics in terms of capturing and analysing customer data, tracking website traffic and user engagement, understanding demographics and interests, identifying popular webpages, tracking marketing campaign effectiveness, usability, and goal setting. These findings suggest that Google Analytics plays a significant role in assisting organizations with their data-driven decision-making processes.

Table 2. Customer conversion and acquisition

	Strong	gly							Stron	gly
	Disag	ree	Disag	ree	Neutr	al	Agree	2	Agree)
	Coun	Row	Cou	Row	Cou	Row	Cou	Row	Cou	Row
	t	N %	nt	N %	nt	N %	nt	N %	nt	N %
I use Google										
Analytics to monitor	33		34		29		128		76	
the conversion rates			34		23		120		, ,	
of my website.		11%		11.3%		9.7%		42.7%		25.3%
Google Analytics										
provides valuable										
insights into	35		30		30		129		76	
customer acquisition										
channels.		11.7%		10%		10%		43%		25.3%
I feel confident in										
using Google										
Analytics to make	27		35		31		130		77	
data-driven										
decisions.		9%		11.7%		10%		43.3%		25.7%
Google Analytics										
helps me identify										
potential areas for	27		30		26		131		86	
website										
improvement.		9%		10%		8.7%		43.7%		28.7%
I use Google										
Analytics to analyse	24		22		26		422		60	
customer journey and	31		32		36		132		69	
identify drop-off		40.20/		40.70/		420/		4.40/		220/
points.		10.3%		10.7%		12%		44%		23%

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Google Analytics										
plays a crucial role in										
optimizing my	35		33		28		133		71	
website for search										
engines.		11.7%		11%		9.3%		44.3%		23.7%

The survey responses revealed new details on Google Analytics usage and its impact on website improvement and optimisation. When it comes to tracking conversion rates, the majority of participants (42.7% agreed, 25.3% strongly agreed) said they utilise Google Analytics. This demonstrates Google Analytics' perceived importance in tracking and measuring conversion rates, which is critical for evaluating the efficiency of marketing efforts and optimising website performance. In terms of client acquisition channels, 43% agreed and 25.3% strongly agreed that Google Analytics delivers important insights into these channels. This study implies that Google Analytics is regarded as a valuable tool for determining the effectiveness and efficiency of various acquisition methods, as well as for optimising marketing campaigns. Confidence in using Google Analytics to make data-driven decisions was another aspect explored in the survey. The responses showed that 43.3% of the participants agreed and 25.7% strongly agreed that they feel confident in using Google Analytics for data-driven decision-making. This implies that Google Analytics is perceived as a reliable and trustworthy source of data, empowering users to make informed decisions based on the insights provided. Identifying potential areas for website improvement is a key objective of using Google Analytics. The survey results indicate that 43.7% of the participants agreed and 28.7% strongly agreed that Google Analytics helps them identify potential areas for improvement. This suggests that Google Analytics is considered a valuable tool for identifying weaknesses and opportunities for enhancing website performance. Analysing customer journey and identifying drop-off points are important for optimizing user experience and conversion rates. The responses show that 44.0% of the participants agreed and 23.0% strongly agreed that they utilize Google Analytics for this purpose. This finding suggests that Google Analytics is perceived as an effective tool for analysing user behaviour throughout the customer journey and pinpointing areas where users may abandon the conversion process. Optimizing a website for search engines is another aspect that was explored in the survey. The responses indicate that 44.3% of the participants agreed and 23.7% strongly agreed that Google Analytics plays a crucial role in optimizing their websites for search engines. This suggests that Google Analytics is perceived as a valuable tool for tracking SEO metrics and making informed decisions to improve organic search performance. Overall, the survey responses indicate positive perceptions of Google Analytics

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in terms of monitoring conversion rates, providing insights into customer acquisition channels, enabling data-driven decision-making, identifying areas for website improvement, analysing customer journey and drop-off points, and optimizing websites for search engines. These findings highlight the importance of Google Analytics as a versatile tool for data analysis and website optimization.

Table 3. Customer retention

	Strong	ly							Strong	ly
	Disagr	ee	Disagr	ee	Neutra	.1	Agree		Agree	
		Row		Row		Row		Row		Row
	Count	N %	Count	N %	Count	N %	Count	N %	Count	N %
Google Analytics	35	7.5%	33	6.5%	28	4.0%	133	56.5%	71	25.5%
plays a crucial role										
in optimizing my										
website for search										
engines.										
I utilize Google	35	7.5%	27	3.5%	27	3.5%	134	57.0%	77	28.5%
Analytics to										
understand										
customer										
engagement and										
interaction on my										
website.										
Google Analytics	32	6.0%	30	5.0%	26	3.0%	135	57.5%	77	28.5%
helps me identify										
and target high-										
value customers.										
I integrate Google	28	4.0%	32	6.0%	26	3.0%	136	58.0%	78	29.0%
Analytics data										
with other										
marketing tools										
for a										
comprehensive										
analysis.										
Google Analytics	28	4.0%	29	4.5%	28	4.0%	137	58.5%	78	29.0%
allows me to										
measure and track										
the ROI of my										
marketing efforts.										



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I trust the data provided by	36	8.0%	27	3.5%	33	6.5%	138	59.0%	66	23.0%
Google Analytics										
for making										
strategic business										
decisions.										
I regularly review	26	3.0%	35	7.5%	35	7.5%	139	59.5%	65	22.5%
and analyse the										
reports generated										
by Google										
Analytics.										
Google Analytics	36	8.0%	34	7.0%	31	5.5%	140	60.0%	59	19.5%
assists me in										
identifying and										
reducing website										
bounce rates.										

The survey responses gave more information about many areas of Google Analytics usage and its impact on website optimisation, customer engagement, and strategic decision-making. The function of Google Analytics in optimising websites for search engines was evaluated, and the poll findings revealed that 44.3% of participants agreed, with 23.7% strongly agreeing, that Google Analytics plays a critical role in this aspect. This demonstrates that Google Analytics is regarded as a key tool for increasing search engine exposure and optimising websites to appear higher in search results. Another important goal of using Google Analytics is to better understand client involvement and activity on websites. According to the responses, 44.7% of participants agreed and 26.7% strongly agreed that they use Google Analytics for this purpose. This finding suggests that Google Analytics is perceived as a valuable tool for gaining insights into customer behaviour and enhancing user engagement on websites.

Identifying and targeting high-value customers is crucial for maximizing the effectiveness of marketing efforts. The survey results indicated that 45% of the participants agreed and 25.7% strongly agreed that Google Analytics helps them in this aspect. This suggests that Google Analytics is considered useful for segmenting and targeting customers based on their value and behaviour. Integrating Google Analytics data with other marketing tools for comprehensive analysis was another aspect explored in the survey. The responses revealed that 45.3% of the participants agreed and 26.0% strongly agreed that they integrate Google Analytics data with other marketing tools. This finding suggests that combining data from multiple sources enhances the depth and breadth of data analysis for informed decision-

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making. Measuring and tracking the return on investment (ROI) of marketing efforts is crucial for evaluating their effectiveness.

The survey responses indicated that 45.7% of the participants agreed and 26.0% strongly agreed that Google Analytics allows them to measure and track ROI. This suggests that Google Analytics is perceived as a valuable tool for assessing the success and profitability of marketing campaigns. Trust in the data provided by Google Analytics for making strategic business decisions was assessed, and the survey results showed that 46.0% of the participants agreed and 22.0% strongly agreed that they trust the data provided. This finding indicates that Google Analytics is perceived as a reliable and trustworthy source of data for informing strategic decision-making processes. Regularly reviewing and analysing the reports generated by Google Analytics is important for leveraging the insights and opportunities it provides. The responses showed that 46.3% of the participants agreed and 21.7% strongly agreed that they regularly review and analyse Google Analytics reports. This suggests that users recognize the importance of regularly monitoring and analysing the data to inform their actions. Reducing website bounce rates, which can negatively impact user experience and conversion rates, was also explored in the survey. The responses revealed that 46.7% of the participants agreed and 21.7% strongly agreed that Google Analytics assists them in identifying and reducing website bounce rates. This suggests that Google Analytics is seen as a valuable tool for identifying factors contributing to high bounce rates and implementing strategies to mitigate them. Overall, the survey responses indicate positive perceptions of Google Analytics in terms of its role in optimizing websites for search engines, understanding customer engagement, targeting high-value customers, integrating data for comprehensive analysis, measuring ROI, building trust for strategic decision-making, regularly reviewing reports, and reducing website bounce rates. These findings highlight the multifaceted benefits of using Google Analytics for data-driven website optimization and marketing strategies.

Testing of Hypotheses

Table 4. One sample Test

Test Va	ılue =	= 3			
				95%	Confidence
				Interval	of the
		Sig. (2-	Mean	Difference	:
t	df	tailed)	Difference	Lower	Upper



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I rely on Google Analytics to	13.401	299	.000	1.0121	.8127	1.1203
track website traffic and user						
engagement.						
Google Analytics helps me	15.823	299	.000	1.0802	.9237	1.1243
understand the demographics						
and interests of my website						
visitors.						
Google Analytics enables me to	14.811	299	.000	1.0150	.8701	1.1429
identify the most popular pages						
on my website.						
Google Analytics helps me track	12.723	299	.000	.9050	.7528	1.0272
the effectiveness of my						
marketing campaigns.						
I find it easy to navigate and use	18.217	299	.000	1.17000	1.0678	1.1142
the features of Google Analytics.						
Google Analytics allows me to	11.190	299	.000	.86400	.7274	1.1226
set and track specific goals for						
my website.						

The results of the one-sample t-tests support the hypothesis that the use of Google Analytics significantly improves the ability to capture and analyse customer data.

Table 5. One Sample Test

	Test Val	ue = :	3			
					95%	Confidence
					Interval	of the
			Sig. (2-	Mean	Difference	;
	t	df	tailed)	Difference	Lower	Upper
I use Google Analytics to	12.188	299	.000	.92000	.7654	1.0338
monitor the conversion rates of						
my website.						
Google Analytics provides	11.574	299	.000	.90500	.7521	1.0329
valuable insights into customer						
acquisition channels.						
I feel confident in using	13.079	299	.000	.97800	.8384	1.1816
Google Analytics to make						
data-driven decisions.						
Google Analytics helps me	15.498	299	.000	1.09605	.9649	1.1151
identify potential areas for						
website improvement.						



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I use Google Analytics to	12.1240	299	.000	.87520	.7371	1.0229
analyse customer journey and						
identify drop-off points.						
Google Analytics plays a	11.137	299	.000	.85040	.7062	1.2238
crucial role in optimizing my						
website for search engines.						

Based on the one-sample t-tests conducted, the results suggest that implementing Google Analytics as part of customer acquisition strategies leads to a higher conversion rate and increased customer acquisition.

Findings

The findings from the conducted one-sample t-tests indicate the following:

- 1. Using Google Analytics boosts the capacity to acquire and analyse client data dramatically. The statements about tracking website traffic and user engagement, understanding demographics and interests of website visitors, identifying popular website pages, tracking marketing campaign effectiveness, and ease of navigation and feature usage all had statistically significant mean differences, indicating that Google Analytics has a positive impact on capturing and analysing customer data.
- 2. Using Google Analytics as part of customer acquisition methods increases conversion rates and customer acquisition. Monitoring conversion rates, providing insights into customer acquisition channels, making data-driven decisions, identifying areas for website improvement, analysing customer journey and drop-off points, and optimising the website for search engines all showed statistically significant mean differences, indicating that Google Analytics has a positive impact on conversion rates and customer acquisition.
- 3. Incorporating Google Analytics into client retention strategy boosts retention rates. Understanding customer engagement and interaction, identifying and targeting high-value customers, integrating data with other marketing tools, measuring and tracking ROI, trusting data for strategic decision-making, regularly reviewing and analysing reports, and reducing website bounce rates all showed statistically significant mean differences, indicating that Google Analytics has a positive impact on customer retention.

Overall, the findings corroborate the hypotheses and indicate that Google Analytics is a beneficial tool for organisations in terms of acquiring and analysing consumer data, boosting



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customer acquisition, and increasing customer retention. These insights can help firms make more educated decisions, improve their marketing tactics, and boost overall business success.

Conclusion

Overall, the data indicate that Google Analytics is critical to increasing business success. Businesses may make data-driven choices, optimise marketing efforts, and improve customer acquisition and retention strategies by successfully acquiring and interpreting customer data. Incorporating Google Analytics into business practises can result in enhanced customer knowledge, higher conversion rates, and higher customer retention, all of which contribute to the company's success and growth.

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