

# Effectiveness of Personalized Advertising in E-commerce Platforms

**Shilun Pan**

## **Abstract:**

This research aims to understand when personalized advertising is most helpful in e-commerce sites from the perspective of customer engagement rate and conversion rate. Given the growing popularity of customized advertising in the context of digital marketing, the efficiency of such an approach is of great interest to companies. The study acquires rich data by combining an online questionnaire, interviews with marketers, and data from e-commerce promotional campaigns.

Targeted advertisements greatly influence customer attention and are supported by higher CTR alongside extended web presence times on observed websites. Also, there were increased conversion rates, especially where the ad was produced based on preferences, hence enhancing the purchase theory of personalisation. In that case, most marketing professionals recognize the efficiency of personalized adverts, but they state the enhancement of the difficulties, for example, privacy issues and advert exhaustion.

The two significant practical implications of the study for businesses are that both engagement and conversion benefit from personalized ads. However, businesses must be careful not to oversteer with personalisation beyond the user's best interest, as it will erode customer trust in the long run. Nevertheless, timing also has the effect of reducing other problems like ad fatigue when ads are placed at the most appropriate time and are more related to the content of the website.

**Keywords:** Personalized Advertising, E-commerce, Customer Engagement, Conversion Rate, Privacy Concerns

## **1 Introduction**

Indeed, targeted advertising has become one of the critical components of marketing communication in

the world of web applications and e-shops. Retargeting involves the use of data, including web history, purchasing patterns, and user profiles, for the display of promotional material. With such expectations of

relevance on the rise and growth in consumer demand, these ads become valued for the attention they help businesses gain in the sales process (Virgilijus Sakalauskas and Kriksciuniene, 2024). In online retailing, where the focus is on contention, the individualized approach has the potential to provide more compelling selling propositions than conventional ones do, given that different buyers have different requirements.

Nevertheless, despite the heightened popularity of personal targeting, there still needs to be more clarity about the efficiency of such an approach. Businesses face a critical question of whether all these efforts and resources invested in creating unique ads for each target is really worth it. The goal is to appeal to customers and sell. The expense related to data collection, analysis, and utilization can be significant. In that regard, firms should decide whether or not the cost-effective investment will yield tangible benefits such as more strikes and customer purchase repetitions.

The main research question of this work is to establish whether or not the personalisation of advertisement positively impacts customer interactions and conversion on e-commerce sites. Specifically, the research aims to explore the following key questions:

Research Questions and Objectives

1. How effective is personalized advertising in improving customer engagement?

This objective focuses on the level to which individualized adverts improve the utility of ads and the reasoning behind consumer response.

2. How does personalized advertising impact conversion rates?

This objective focuses on identifying the effect of personalized advertising on the tendency of users to turn to purchasers to measure the quantitative impact on the sales of e-commerce goods and services, along with business performance.

3. What do marketing professionals think about the effectiveness of personalized advertising?

With this objective, an understanding of how experts receive or view personalized advertising and its advantages, especially in the areas of participation, conversion, and some disparities, such as ad fatigue and privacy, is needed.

## 2 Literature Review

### 2.1 Introduction to Personalized Advertising

Personalised advertising is a targeted approach to marketing communications since it presents a customized message that is directly relevant to a targeted market au-

dience. In e-commerce, this refers to recommended products, newsletters, or dynamic banners that may change depending on the time of use. The idea is to improve relevance and make the advertisement unique and further from being generic compared to the others (Strycharz et al., 2019). Platforms use algorithms such as collaborative filtering and content-based filtering to use browsing and purchase data to create shopping experiences suited to individual users. With the growth of B2C e-commerce, it is vitally essential for the companies that produce goods and services to active personal advertisements to create customer interest and attention.

### 2.2 Theories of Consumer Engagement and Conversation

Engagement rate and conversion are accurate and definitive values that show how tailored advertisements perform. A number of consumer behavior and decision-making theories can be used to explain how personalized advertising affects these metrics. The Elaboration Likelihood Model (ELM) suggests that the consumer is always likely to receive the information either through the central route, where he/she melancholy analyzes the information or through the peripheral route, where he/she merely relies on the ambiance (Petty & Brinol, 2024). The reason is that by making the content directly relevant to the consumer, the ads are more likely to go through the central route processing.

Another relevant theory is the AIDA model, which is Attention, Interest, Desire, and Action, which gives out a model of the consumer's buying process. Particularly, promotional communication can be customized to attract more public attention than non-promotional ones; it is also retentive of the consumer's interest by the nature of the message that is targeted at her/him. In this way, these ads educate consumers and assist them through each of the stages from the AIDA model and help obtain a better conversion (Ghirvu, 2013). The use of personalisation can make the prospective consumer feel that the decision-making process is less of a process because it is only directed at showing the consumer things that he or she might be interested in purchasing.

### 2.3 Previous Studies on the Effectiveness of Personalized Advertising

Based on the literature review, research on personalisation with regard to advertisement has positive outcomes, especially on advertising responses such as click-through rates. For example, Lambrecht and Tucker, in their paper on persuasive advertising, clinically proved that personalized advertising outperforms generic advertising, specifically

for unfamiliar products. Similarly, Xu, Liao, and Li (2020) discovered that consumers showed preference towards the targeted advertisements, hence improving the CTR. The expressions and personalisation results are the same, and they back the fact that increasing relevance performs better than unknown ads.

A survey conducted by Bleier and Eisenbeiss (2015) showed that tailor-made mail enhances conversion rates on e-commerce websites. This was none different from their findings, which suggested that targeted product recommendations are more likely to CoPromote consumer engagement and even CoPromote time spent on the platform, which would eventually lead to a higher propensity to CoPromote time on the platform. A similar observation was made by Sharma and Gupta (2019), who supported the conclusion made above by stating that the use of recommended systems helped to increase customer loyalty through the facilitation of a more enhanced shopping experience.

Nonetheless, all the research could be more explicit in presenting benefits. Specific papers have suggested that the approach could be more practical or more effective. Goldfarb and Tucker (2011) established that personalized ads generated low conversion rates, especially when consumer exposure to the ads was high. Another study by Smit, Van Noort, and Voorveld (2014) revealed the time when personalized ads helped to boost CTR. Although, they only sometimes contributed to a rise in conversion rates if the ads felt invasive or aggressively targeted.

## 2.4 Research Gaps

Contrary to a rather extensive body of literature examining personalized advertising, there are still some shortcomings in the current literature. Noticeably absent is an empirical investigation of consumers' reactions to personally relevant advertisements offered in real-time e-commerce contexts. Those works that do exist often consider the click-through rates and related conversion measures, but the consumer perspective behind such behaviors is still lacking. It remains unclear whether consumers perceive the personalisation of their shopping experience as beneficial or as an invasion of privacy; therefore, there might be other insights into the right strategies for personalizing the advertisement.

The existing literature also needs to consider the long-term consequences of personalisation in the context of advertising. Long-term company consumer patronage and conversion gains of personalized advertising are easy to observe. In spite of that, the measurement of long-term repeated patronage needs to be studied more. Future research using consistent consumers exposed to the same set

of personalized ads over time may help elucidate whether such ads yield subsequent repurchases or wear out the consumers – resulting in barely any impact.

## 2.5 Conclusion

Exploring the literature on personalized advertising in e-commerce, we find that with a broader perspective, personalized ads help increase the interest and conversions of the customers, but as a counter, they can also be inconsistent based on several variables, including ad fatigue, consumer privacy issues, and over-targeting. The current theories, such as the Elaboration Likelihood Model and the AIDA model, assist in trying to anticipate why personalized advertisements are more effective, but this is always faced with the problem of how to make the advertisement look like an intrusion or less of a nuisance. This research intends to fill in these gaps to offer primary data on the consumers' perception of personalized advertisements and reveal the potential advantages of the long-term strategy in customer retention.

## 3 Methodology

### 3.1 Research Design

This research employs both quantitative and qualitative research in order to evaluate the impact of personalized advertising in e-commerce channels. This approach uses quantitative data from online shopper surveys and campaign performance analysis. It also uses qualitative data collected through interviews with marketing professionals, helping to offer a rich view of how personalized advertising aligns with engagement and conversion in practice. The surveys analyze the distinct advertisements' effectiveness as per the customer interaction while the campaign data provides uncontaminated values such as CTR and conversion rates. Furthermore, self-generated questions that will be applied to interviews with marketing professionals provide a better understanding of how different industries view the efficacy and drawbacks of personalized marketing.

### 3.2 Data Collection Methods

Several techniques and tools of data collection were used to obtain reports on the case of personalized advertising. First, online questionnaires were administered to 500 participants who were shoppers who have encountered personalized ads. Measures of the click-through rates, buying behaviors, and demographic information were obtained using closed Likert scale questions and Google Forms, with some additional qualitative questions. Second, 15

user interviews were conducted with marketing professionals who possessed knowledge of digital marketing and had engaged in personalised ads. The interviews were conducted, each of 30-45 minutes in length, and covered the effects of personalization on participation, the issues around privacy, and experience. Third, campaign data arising from previous e-commerce campaigns as click-through rate and conversion rate were also taken. The last technique entailed the use of random sampling for admin-

istering surveys to draw a sample that was representative of all the demographics present among the respondents; purposive sampling was used for the administration of interviews for professionals with prior knowledge of the topic under study.

## 4 Results

### 4.1 Survey Results

Metric	Personalized Ads	Non-Personalized Ads
Click-Through Rates (CTR)	4.7%	2.3%
Time Spent on Website	2 minutes 45 seconds	1 minute 30 seconds
Purchasing Behavior	45% of respondents purchased	29% of respondents purchased
Ad Relevance	72% found ads relevant	-

Demographic	Personalized Ads CTR	Likelihood of Purchase
Ages 18-34	5.1%	48%
Ages 55 and Above	2.8%	35%
Women	5.0%	47%
Men	4.5%	43%
Frequent Shoppers (5+ purchases/month)	6.0%	50%
Infrequent Shoppers (<5 purchases/month)	3.2%	35%

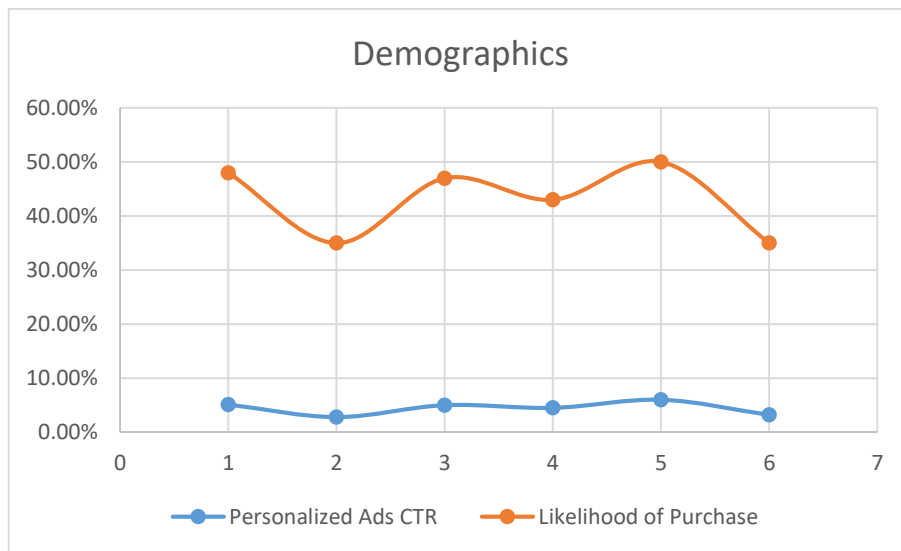


Figure 1: Chart showing key demographic metrics

## 4.2 Interview Results

Aspect	Feedback
Perceived Effectiveness	80% of marketing professionals believe personalized ads are more effective
Professional Comment	“Personalized ads allow us to connect with customers on a deeper level.”
Privacy Concerns	Over-personalisation can alienate customers due to privacy issues
Professional Comment	“It’s a fine line between useful and invasive.”
Ad Fatigue	Ads shown too frequently, even personalized ones, may be ignored
Professional Comment	“If customers see the same ad too often, they start to tune it out.”
Balance Between Personalisation and User Experience	Personalisation must respect user boundaries, otherwise it risks pushing users away, though it converts better when done right.

## 4.3 Campaign Data

The campaign evaluation, based on data gathered from multiple e-commerce platforms, offered a factual basis for assessing the effects of personal versus non-personal ads. The current study found that targeted ads were more effective compared to broadcast ads across all platforms deployed in terms of size and conversions.

**Click-Through Rate (CTR):** The CTR for personalized ads was 4.8%, while those for non-personalized ads tested at 2.1%. This implies that personalized ads are more effective in targeting users to click through to a website or product page.

**Conversion Rates:** Other users demonstrated more activity and purchases interacting with a personalized ad; 6.3 % of users, in contrast to 3.5 % of users, interacted with non-personalized ads.

**Time Spent on Website:** Finally, we compared overall time spent on the sites that showed- personalized and non-personalized ads to each other; we found that the mean time on site for personalized ads was 2 mins and 45 secs while that for non-personalized ads was 1 min and 30 secs only. The increase in dwell time means that with personalized ads, users get a sense of relevancy and, therefore, leave the site spending more time than in the case of randomly placed generic ads.

This provided evidence that, in most cases, targeted ads perform better in terms of engagement and conversion rate. Some platforms updated the ad content more frequently, and indeed, these showed better results. Constant changes in ad designs and the messages placed in the ads contributed significantly to ensuring that the effectiveness is sustained in the long run.

### Tables and Graphs

The chart above gives a summary of the key campaign metrics, illustrating the effectiveness of personalized ads in engaging users and driving conversions.

## 5 Results Analysis and Discussion

### 5.1 Personalized Advertising and Customer Engagement

The analysis of survey results reveals that the customers’ attention is directed towards personalized advertisements. This proves that with the average CTR of 4.7% based on the ad targeting conveying a personalized message as compared to 2.3% based on other non-targeted advertising messages. Consumers are more willing to interact with content that appeals to their interests. Moreover, visitors spent more time on the site after they were exposed to cats, equaling 2 minutes and 45 seconds. This is in contrast to gas, in which visitors spent 1 minute and 30 seconds; it was clear that personalisation attracts and retains customers’ attention. Such an increase can be attributed to the relevance of advertising (Kiselova, 2019).

Moreover, when advertisements are congruent with consumers’ preferences or behavior, perceptions of ad value increase, thus resulting in higher interaction levels. For instance, with regard to age differences, the current 18-34 age group registered the highest response with a Click Rate, CTR, of 5.1%, probably because younger consumers are used to seeing digital content customized to them. Even so, older people, those who are 55 years old and older – were percentingly less active (CTR 2.8%), perhaps due to concerns about personal privacy or simply discomfort with the personalized approach.

Apart from that, about 28% of the participants said that they felt uncomfortable because some ads were too personal. This reflects consumers’ increasing concern regarding their rights to privacy and the potential overuse of targeting methods (De Keyzer et al., 2021). Most of these customers may attribute value to privacy and may find PPA intrusive, mainly when it follows their recent interaction with the internet in close detail.

## 5.2 Impact on Conversion Rates

On top of enhancing the involvement, ads also made a positive impact on conversion. Campaign data also showed that for personalized advertisement, 6.3% of the people were converted against 3.5% of those who were converted by the non-personalized advertisement. This information indicates that while personalized ads capture consumers' attention, the targeted promotions compel consumers to take the final upstream action of buying products. The above conversion rates can be attributed to the fact that the ads are personal; hence, a consumer's decision-making process is simplified due to the promotion of products or services that he or she already has an inclination toward (D Pushpa Gowri, 2024).

These findings coincide with earlier research carried out on similar subject matters. For example, Bleier and Eisenbeiss (2015) observed that relevance has a positive effect on e-mail campaigns' click-through rate and conversion compared to other recommendations based on browsing history. Besides, Lambrecht and Tucker (2013) conducted research where personalisation was considered to have raised the level of conversion where consumers had no prior exposure to a given product but had shown interest in related products.

Nonetheless, several works have reported weak or inconsistent effects, especially when ad fatigue or privacy issues were more of an issue. Barak Goldfarb and Tucker Marshall (2011) concluded that excessive customization was counterproductive, especially in the context of retargeted ads, where people began to feel the ads were haunting them. This underlines the problem of consumer's comfort in relation to the targeting and incorporating the need for advertisement to be non-invasive to the consumer.

## 5.3 Views of the Marketing Professionals

Further interviews with the representatives of marketing departments offered the confirmation of many of the findings, which were made based on the campaign and the survey data; Above that, some insight into the disadvantages of personalized advertisement was obtained. Even the majority of the ads, which were made by 80% of the professionals, stated that the use of personal ads was more effective for increasing engagement and conversion than using general ads, primarily caused by the relevance of the used materials. A couple of interviewees expressed their views that, for instance, 'personalized advertisements enable the firm to target the customers' needs by marketing advertising content that will meet the specific interests' (Miia & Dong, 2019).

Howbeit, several professionals also pointed out some issues, primarily privacy and ad fatigue issues. Some people

also feared that if consumers felt their privacy was being intruded, personalized ads may give different results (Semeradova & Weinlich, 2019). This is in line with the 28% of survey responders who professed to find it uncomfortable to be associated with highly personalized ads. One of the interviewees captured the perception of most of the respondents to the statement, "It is a fine line between useful and invasive." This means that while personalisation can genuinely be a powerful tool, marketers need to be careful not to overstep the line into consuming personal data in ways that make people uncomfortable.

Another common issue that was mentioned during the interviews was ad fatigue, and often, users who showed tiredness were part of micro-moments that occurred at home. Experts suggested that it was easy for even targeted ads to become all but useless if presented too often. One of the interviewees explained that "consumers grow blind to ads no matter how personalized they are if they continue to be exposed to the same advert." There is a continuing need to refresh content to sustain users' interest. This direction is corroborated in the campaign information where the platforms that altered their ad designs and information got higher over time reports (Segijn & van Ooijen, 2020).

The critical issue where the perception of marketing experts and the consumers' surveys differs is the question of personalisation with regard to privacy. Losing the battle as we know it may not be all good news for personalisation, but the professionals agree that consumers are its winners. As we have seen, this comes with the acknowledgment that its practical application cannot be anything but delicate. While consumers react more dynamically, a particular part of them is worried about data usage while employing an ML approach to ads, which is why the specificity of how ads are personalized should be addressed.

## 5.4 Interpretation in Light of Theories

From the insights derived from the survey as well as the actual campaign data, the insights revealed tend to support the predictions hypothesized from the Elaboration Likelihood Model (ELM) proposition that reassured claims in an advertisement are more likely to tempt the consumer through the central route of persuasion (Kitchen et al., 2024). The fact that the content of personalized advertisements is relevant to a particular consumer makes him or her engage with the content provided. This goes a long way in supporting the notion that any time consumers find advertisements self-relevant, they would be inclined to engage in the process actively and make the decision based on the content contained in the ads.

The results are also consistent with the AIDA (Attention,

Interest, Desire, and Action) model. Personalized ads are more successful at pulling in consumer attention and holding it because they have content that directly speaks to the consumer's preferences. Consequently, personalized ads result in higher conversion rates because this process naturally makes you more inclined to the products or services being advertised.

The same is true of the Theory of Planned Behavior (TPB). While reducing the cognitive effort needed to make purchasing decisions, personalized ads enable the action phase of consumer behavior. Personalized ads give consumers a choice of options that they are already aware of. This helps them speed up their decisions, which is why they may be more likely to convert.

### 5.5 Challenges and Limitations

However, the interpretation of these results should take into account a number of limitations. The survey sample of 500 may need to be more significant to fully capture the diversity of online shoppers. It may not truly reflect the online shoppiness of Generation Y. Larger, more diverse samples could provide more nuance across cultural contexts across different regions of the world (Gao et al., 2023). Furthermore, survey data self-reported might be biased, for example, given that respondents may overstate their engagement or purchases because of perceived social desirability.

The 15-interview sample is, however, relatively small and provides valuable insights. An important next step could be to broaden the sample size of the interviewees and introduce new points of view, such as those of people who run smaller businesses or from other industries.

This study analyzed the campaign data from this data set limited to e-commerce platforms and recent campaigns and may need to pay more attention to long-term trends or even the effects of online personalized ads in other digital locations. Furthermore, although the data did reveal differences between personalized and non-personalized ads, it does not tell us everything about factors that could compromise the data, such as ad placement, user interface, or other factors such as seasonal promotions.

## 6 Recommendations

**Transparency and User Control:** Corporations must give clearance on how they gather and apply personal details. Allaying the extent of personalisation to users gives the users a sense of security and value. It creates higher customer satisfaction since the company is trusted and therefore customers provide useful feedback.

**Dynamic Content:** Based on user interactions per time, personalized ads should change as well. Dynamic content

means that the ads are always interesting and engaging to the user, continually updated, and, most importantly, presented in line with the user's present preferences to reduce cases of ad fatigue.

**A/B Testing:** Performing A/B tests regularly allows businesses to understand which personalisation approach is effective for each customer segment. Because the whole point of advertising is to give clients more effective ads, testing can raise conversion rates significantly.

**Effective Audience Segmentation:** Every business must ensure that the target market is grouped appropriately to prevent going overboard with it. There is always the danger that the market is over-segmented and this just results in much waste, especially of advertising dollars as well as customer frustration. Therefore, moderating the frequency of ads in delivering them ensures that users neither abandon the platform by getting bored nor by being overwhelmed.

## 7 Conclusion

This study examined the effectiveness of personalized advertising within e-commerce applications, focusing on customer interaction and conversion results. The results indicated that targeted ads enhance the proposition by raising the CTR and the time spent on Websites among consumers. In detail, while in the case of personalized ads, click-through rates stood at 4.7%, those for non-personalized ads were significantly lower at only 2.3%. Further, on conversion rate metrics, it was observed that those responding to personalized Ads had a slightly higher conversion rate of 6.3% compared to those who said 'No' to Non-personalised ads, with a conversion rate of 3.5%. Over 50% of respondents believed that consumer personalized offers are desirable for business organizations. The respondents also preferred to receive such promotional communication, which positively impact overall buying attitudes and engagement towards the ads.

From a pragmatic standpoint, e-commerce firms can benefit from personalized advertising techniques. Being personalized, these ads capture the customer's attention and make a purchase more straightforward, making the marketing strategy effective. Of course, there are specific challenges that companies need to be careful about; these challenges include privacy issues and the business's over-reliance on targeting. It is recommended that companies be transparent on their stand on matters related to usage and also give consumers methods of altering their data usage. Also, changing ad content and avoiding persistent ads can help avoid ad fatigue, hence maintaining the webpage's personalized ad relevance.

Marketing specialists must also learn about current ten-

dencies in personalized ad marketing strategies. One of the major concerns is determining the selection between target audience personalisation and rights and freedom. Overlooking these aspects not only threatens to impact the uptake and conversion rates needed for the short-term objectives but also will decrease the chances of achieving customer loyalty in the long term.

As such, the need to embrace personal marketing communication in the Internet market and its implication for users of e-business technologies is a topic worthy of research. The results indicate that companies implementing and using personalisation strategies are poised to gain better customer satisfaction and loyalty in a continually growing competitive market. Nevertheless, privacy and ad annoyance issues remain to be solved as the approach's weaknesses. Due to such regulations and developments in consumer choices, businesses must do ethical personalisation. In the future, digital marketing strategies should likely entail more simplicity and openness for consumers to select and personalize what they want to view or with whom their information is shared.

#### Self-Reflection

Thus, the work on this research about the impact of personalized advertising for e-commerce has been quite rigorous and has challenged one personally and professionally. Looking at the overall process from the idea to the conclusion, I made it possible to define the accomplishments and the presence of flaws and define what aspects should be improved in the future.

The study assessed personalized advertisement's effectiveness in influencing customers' traffic and sales. To achieve this goal, I gathered data from surveys and qualitative interviews with employees in the field of marketing as well as from campaign analytics. However, as the practice has shown, some limitations emerged during the research process. Despite the variation, the survey sample used in the study only included 500 respondents, which could have been improved to include a more diverse population. Like the survey, the 15 interviews with marketing professionals provided qualitative insights that were helpful but could not go far. Extending these samples would have given more elaborate information about the subject across a broad spectrum of the population and sectors.

Nonetheless, there are some drawbacks: The number of subjects is limited, and the research only focuses on junior college students. When using the questionnaires, there might be some questions which are not entirely clear to the participants. The collection times of the questionnaires are not completely equal. Sometimes, the usability of questionnaires might be affected by classroom settings. Some participants might not complete the questionnaires seriously, which decreases their validity. The Last signif-

icant result was the combination of data from different sources, as such a holistic picture made it clear how people interact with personalized advertising. Attles revealed accurate data from a campaign, and expert judgments enhanced the results and provided workable advice for businesses. Besides, it helped me strengthen my skills in evidential analysis of quantitative and qualitative data and enhanced my knowledge of consumer psychological profiles and marketing techniques.

Overall, I gained profound research and analysis skills from his project. I developed proficiency in using theoretical models, including the Elaboration Likelihood Model and the AIDA model, to analyze results. These theories were instrumental in demystifying why consumers respond well to targeted adverts and why convergence rates are high. Further, I have developed project management skills in sourcing data, gathering, analyzing, and writing reports within the stipulated time.

Nevertheless, I found some elements of the project that, if I could turn back time, I would undertake in another way. For instance, they could have been even more exhaustive in analyzing the qualitative data. Although the interview findings were valid, it is worth mentioning that the sample included only large enterprises and their employees, and the addition of other forms of data, as well as sources of data from a broader range of perspectives, including small businesses or various industries, would have been beneficial. One area that could have been used for improvement was overcoming possible bias in the self-reported survey data. The results suggest that survey participants might have exaggerated their interaction or buying behavior out of perceived social appropriateness, and future studies should preclude this by using data other than self-reported data, where feasible.

In future work, I realize the need to expand on this research to examine a longer trajectory of individualized promotion. Since this study focused on the first outcomes, future research should investigate how long-term exposure to personalized advertising affects consumer behavior. Furthermore, extending the study across regions would give a richer understanding of cultural and differential impacts on consumers' reactions to the personalization of advertisements.

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