INVESTIGATING THE INFLUENCE OF CHATBOTS ON CONSUMER BEHAVIOUR

Faran Izhar
Adjunct Faculty
Department of Management and Commerce
Amity University, Dubai
Orcid ID: 0009-0004-0322-3135

Saher Nabi
Program Leader
Department of Amity University Foundation Program
Amity University Dubai
ORCID ID: 0009-0000-7512-0662

ABSTRACT

This research delves into the booming field of chatbots to identify how they impact consumer behaviour. Through the use of a mixed approaches approach that combines quantitative examination with subjective meetings, the investigation looks at a variety of elements, such as dynamic cycles, client discernments, and commitment examples. Focusing on chatbot use in sophisticated advertising correspondence, this research will investigate how these techniques affect consumer behaviour. Similarly, this study looks at how well chatbots may be adapted to create a desire to purchase. Supported by significant writing, a timely method for handling computerised long-term promotion correspondence and variety will be shown. Additionally, this study will examine how customers perceive chatbots that use artificial intelligence (AI) in computerised marketing communications. This research is important since it provides an overview of new showcasing concepts and tactics and incorporates analysis into new AI strategies used by marketers. The investigation's findings will help businesses comprehend how their target audiences view chatbots in advertising communications and how they affect consumers' purchasing decisions. Moreover, this investigation will use state-of-the-art technologies to help sponsors reach out to current participants and attract new ones.

Keywords: *Investigating, Influence, Chatbots, Consumer Behaviour, Artificial Intelligence*

1. INTRODUCTION

The introduction of chatbot technology has brought about a huge change in the way customers and organisations collaborate in the well-defined world of today. Artificial intelligence (AI)-powered chatbots have emerged as adaptable tools that enable businesses to engage customers gradually with assistance, data, and even value-based help. This significant shift in communication channels warrants a preliminary examination of the impact of chatbots on customer behaviour.

There is a plethora of variables that could potentially shape and redefine consumer behaviour when chatbots are included into various touchpoints along the consumer journey. First and foremost, chatbots' comfort and speed enhance the customer experience by responding to queries quickly and continuously addressing issues. This constant transparency can positively impact consumers' perception of a brand by promoting loyalty and satisfaction. Furthermore, the personalised concept of chatbot partnerships, tailored to individual preferences and historical behaviour patterns via artificial intelligence computations, strengthens loyalty and fosters a sense of connection between customers and companies.

Furthermore, the impact of chatbots extends beyond straightforward value-based transactions to include more substantial segments of customer life cycles. Organisations can learn a great deal about customer preferences, problem areas, and emerging trends by delving into the massive information vaults generated by chatbot communications. This wealth of information encourages associations to improve their item offerings, streamline their marketing processes, and craft their messaging to more effectively resonate with target audiences. Chatbots typically serve as training tools for dealing with deeper levels of customer commitment and comprehension.

Regardless, whereas there are possible benefits, there are also inherent challenges and considerations that need to be explored. Information security and chatbot security concerns underscore the need for robust barriers and ethical guidelines to protect the interests of consumers. Moreover, the uniqueness of chatbot fatigue, in which users may feel overwhelmed or dissatisfied with automated cooperation, is a pertinent problem that requires further research.

The impact of chatbots on customer behaviour is a complex phenomenon that requires careful analysis. Through an in-depth analysis of chatbot relationships, experts can elucidate the

mechanisms by which these cutting-edge materials influence consumer perceptions, preferences, and purchasing decisions. Finally, these kinds of encounters have a big impact on businesses attempting to effectively use chatbot technology to increase customer loyalty and promote sensible growth in an unquestionably competitive market.

1.1. Objectives of the Study

- Researching and comprehending how consumer behaviour in the online meal service industry is influenced by digital marketing.

- To research and comprehend the variables affecting customer behaviour in online advertising.

- To investigate whether respondents' personal characteristics influence their inclination for chatbots.

2. LITERATURE REVIEW

Eren (2021) explores the factors that influence customer loyalty in relation to chatbot use, especially in Turkey's financial sector. The review makes use of experimental evidence to identify critical factors that influence customer loyalty to chatbots, providing insight into the nuances of customer interactions and preferences. Eren's quantitative analysis identifies important variables that impact customer loyalty, including system quality, data quality, timeliness, and security concerns. This study emphasises how important it is to comprehend the demands and presumptions of clients while developing and implementing chatbot services, stressing the role that reliability and value have in fostering happy customer interactions.

Fullam (2017) examines the role that activism in internet entertainment plays in helping today's youth develop their personalities. Fullam explores the meaning of commitment in web-based activism for the growth of young characters and fosters social and political consciousness using a subjective contextual analysis technique. The review highlights the novel potential of online entertainment platforms to provide spaces for young activists to express themselves, connect with others, and become ready. Fullam emphasises the importance of taking into account the socio-social context and human interactions in order to comprehend the components of young activism that are based online, bringing to light the astounding relationship between activism, technology, and personality.

Galloway and Swiatek (2018) examine how computer-based intelligence affects advertising practices. Beyond its conventional association with mechanisation and productivity, the paper examines the multifaceted impact of computer-based intelligence. Galloway and Swiatek argue that by expanding the main emphasis, improving crowd focus, and utilising tailored correspondence, simulated intelligence generally modifies the components of advertising. Contrary to well-known perceptions, the designers attest that computer-based intelligence in advertising goes beyond basic motorization and encompasses wider shifts in partner commitment and recognition across the board. Organisations can leverage information-driven knowledge to enhance communication strategies and establish meaningful connections with various partners by adopting breakthroughs in artificial intelligence.

Heinonen and Strandvik (2015) introduce the concept of "customer-dominant logic" (CDL), which deals with a shift in perspective from the traditional firm-driven approach to deal with a customer-driven point of view in managing and promoting the leaders. The assessment elucidates the core principles of CDL, emphasising the co-creation of substantial value through distinctive relationships between clients and specialised businesses. Through redefining the role of customers as active contributors to processes of creating reputation, CDL emphasises the importance of comprehending customer requirements, preferences, and experiences in promoting growth and competitive advantage. This paradigm change is reflected in current trends that emphasise client loyalty and the formation of administrative ecosystems.

Jiang, Qin, and Li (2022) examine the impact of chatbots on Chinese consumers' purchase intentions and actual usage. The review examines the mechanisms by which chatbot collaborations impact customer perceptions and behaviour through observational analysis. According to research, chatbots play a significant role in improving customer loyalty, satisfaction, and purchase objectives by providing personalised recommendations, timely assistance, and regular conditional interactions. The assessment emphasises how chatbots may revolutionise customer communications and drive commercial outcomes in the retail space, especially in the context of the Chinese market and its distinct social and consumer conduct features.

Kasi lingam (2020) examines the expectations and mindset surrounding the use of chatbots on smartphones for shopping. Based on the development dissemination hypothesis and the technology acceptance model (TAM), this review examines what influences users' perceptions

and goals for using smartphone chatbots. The findings show that consumers' perceptions and expectations regarding the use of chatbots for buying are influenced by apparent value, convenience, and overall satisfaction. Furthermore, the analysis underscores the significance of trust, social influence, and perceived risk in shaping consumer attitudes towards chatbot reception, highlighting the intricate concept of technology adoption in retail environments.

3. RESEARCH METHODOLOGY

3.1. Research Philosophy

Selecting the appropriate examination rationale is the first step towards exploration; interpretivism is the method of thinking that is chosen for this investigation. Interpretivism emphasises the separation of individuals from real-world peculiarities that they draw conclusions from. Interpretivists look into these consequences. Individuals from diverse social backgrounds, in different situations, and at different points in history create distinct social realities and have diverse effects. Interpretivists concede that in their attempt to distil all encompassing "rules" for everyone, valuable insights about each individual are lost. Recognising that yes is generally reasonable for business exploration and the board in certain specific domains such as showcasing. Interpretivism is chosen in order to improve understanding and give translations more significance.

3.2. Approach to Theory Development

There are three fundamental techniques for creating speculations: inductive, logical, and abductive. Since there isn't a lot of writing on subjects like chatbots and artificial intelligence in promoting, the inductive technique will be more valuable. Acquiring understanding into how customers see their social climate is fundamental, as the examination led for this study has been revolved around them. By utilizing an inductive method, we can get understanding into individuals.

3.3. Time Horizon

Cross-sectional examinations, which can be led whenever, and longitudinal investigations, which reflect events over a specific timeframe to break down change and improvement, are the two principal sorts of time spans. Owing to the need for this research to be conducted quickly, the cross-sectional method is appropriate for this study. The goal of the research is to ascertain

current trends in this field while concentrating on the influence of chatbots on customer behaviour in a specific time period.

3.4. Techniques and Procedures

3.4.1. Data Collection

3.4.1.1. Primary Data

The crucial details are those that were once again obtained in an intriguing manner, making the individual in question distinctive. In relation to this review, data was acquired via a survey. This additional information was obtained through client conversations, correspondence, and survey topping off.

3.4.1.2. Secondary Data

The optional data is acquired from various publications, distributed audit and exploration papers, periodicals, distributed insights, government office reports, and contextual assessments. and so forth

3.4.1.3. Sample Design

The example plan used to explain this investigation is After careful examination, every respondent had used chatbots at least once.

3.4.1.4. Sample Size

The evaluation was centered around an example of 100 people who were clients of the web-based help area and had utilized chatbots no less than once. The respondents are all inhabitants of India.

3.4.1.5. Data Collection Instruments

Poll refers to a device that uses a word that each respondent fills in on their own to bind their response to an officially structured list of questions. In order to achieve the study's objective, structured questions with six areas are used. The first section of the main segment asks demographic questions, then moves on to need recognition, data search, option evaluation, purchase decision, and post-purchase behaviour.

3.4.1.6. Data Analysis Techniques

Percentage method, Chi-square analysis.

3.4.1.7. Hypothesis Formulated

Null Hypothesis: The respondents' inclination towards chatbots is not significantly impacted by their personal characteristics.

Alternate Hypothesis: The respondents' inclination towards chatbots is significantly influenced by their personal characteristics.

4. RESULTS AND ANALYSIS

4.1. Demographics

Using online Google structures from 100 respondents, the review was conducted. Three age bunches (GP1, GP2, and GP3) comprise the main arrangement of the responders. GP1 is an age group of 16 to 35 years old, primarily made up of students and those starting out in their careers. Respondents in GP 2 are primarily well-established workers, with age groups ranging from 36 to 50 years. For the two age groups, there will be differences in online buying habits and purchasing behaviours. GP 3 is an age group of fifty people who are mostly settled and either near or beyond retirement.

The collected data would be very beneficial in focusing on the perceptions of consumers regarding chatbots. When there are many possibilities in the information, the results are presented in a structured manner; for example, the information is presented as pie charts with respondents' answers presented in an authoritative manner. The results are presented as the average responder responses with clear age group selections.

Table 1 presents the consolidated data related to the study. Of the 100 responses, 53% are men and 47% are women. In terms of age, profession, monthly income, residence location, and educational attainment, the responders represent a mix of several classes.

Table 1: Features and Profile of the Demographics

S.NO.	Parameter	Characteristics	Percentage	
1	Gender	Male	54	
		Female	46	

2	Age	16-35	60	(GP1)
		36-50	21	(GP2)
		>50	19	(GP3)
3	Occupation	Salaried / Job	31	
		Self-employed / Business	10	
		Students	34	
		Unemployed	14	
		Pensioners and Homemakers	11	
4	Level of Education	High School / Diploma	12	
		Bachelor's Degree	20	
		Master's Degree	41	
		Doctorate	27	
5	Income Level	< 10,000	11	
		< 50,000	10	
		< 1,00,000	31	
		< 1,50,000	35	
		> 1,50,000	13	
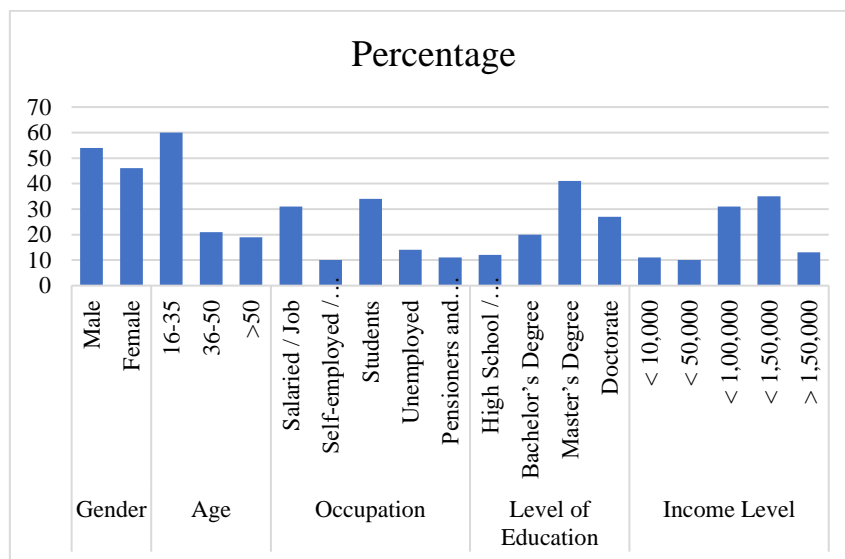
Figure 1: Demographic Profile and Characteristics Illustrated Graphically

4.2. Place of Residence

The spot of home is depicted in figure 2. Generally speaking, we have classified the spot of home into three categories: metropolitan, metropolitan, and provincial locations, regardless of their identity. The accompanying figure displays the total number of responders as GP1, GP2, GP3, and their place of residence in years.
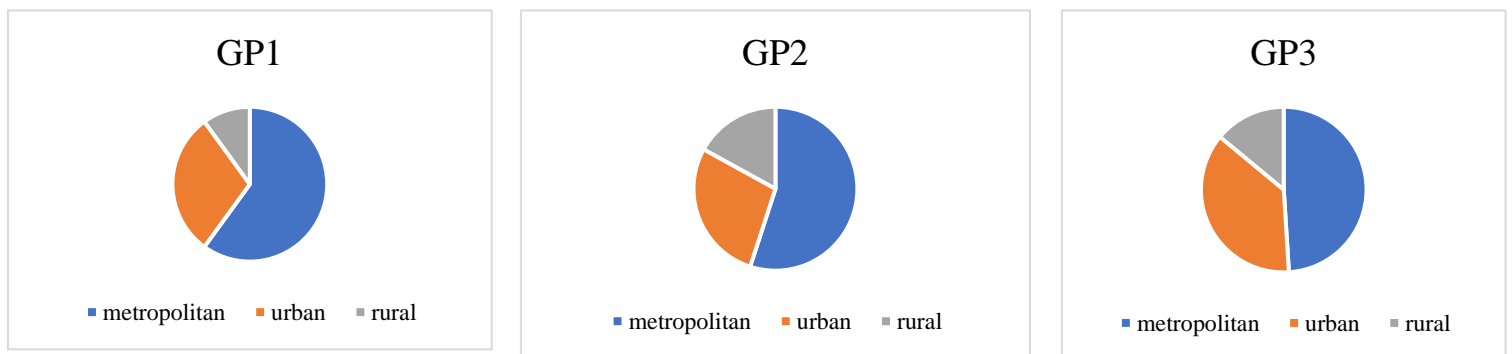

Figure 2: GP-1, or the 16–35 age group Age groups 36–50 in GP-2 and over 50 in GP-3

4.3. Frequency of Online Purchase

Figure 3 shows the frequency of web-based purchases during the last year. Of the respondents, 47% make standard online purchases. Surprisingly, GP2 are using the internet for shopping more frequently than GP1, the younger age group. Nevertheless, about 15% of people who purchase rarely use the internet. The fact that even the GP3 regularly shop online indicates that online shopping has successfully reached all people, regardless of their age group.
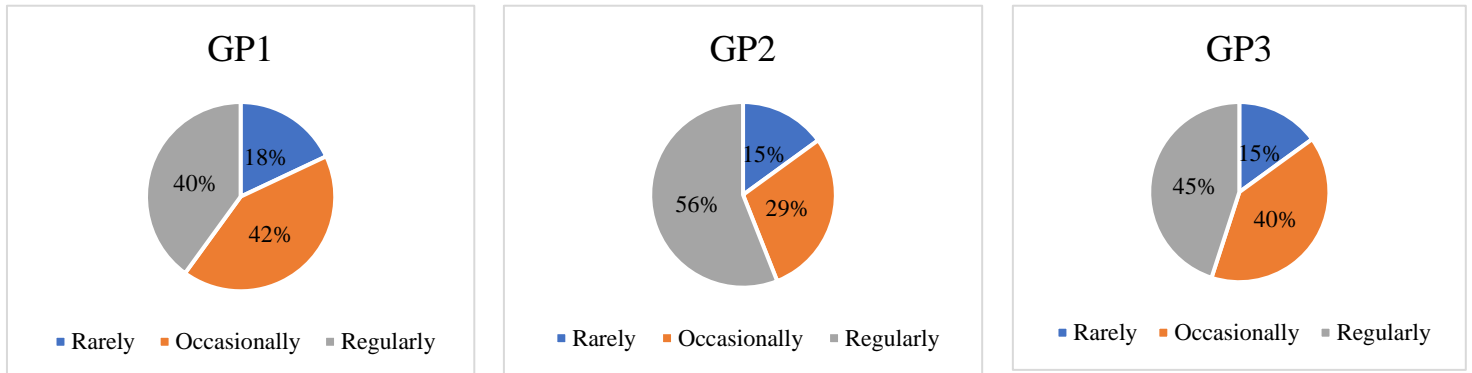
Figure 3: 16–35-year-old age range Age groups 36–50 in GP-2 and 50 and beyond in GP-3

4.4. Familiarity of AI

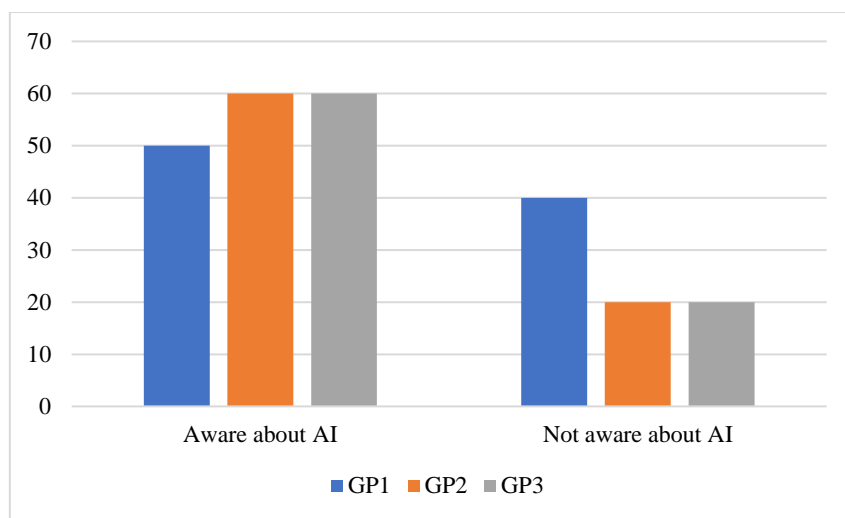The majority of respondents, regardless of age group, are aware of AI, as seen in figure 4.

Figure 4: Diverse Groups' Awareness of AI

The Figure 5 shows the components that moves customers to use chatbots, the most convincing part is the "settling issue fastly" followed by 1-1 correspondence and responsibility with brand. Though giving customized data and finding moment solutions doesn't persuade customers by and large. regardless old enough gathering.
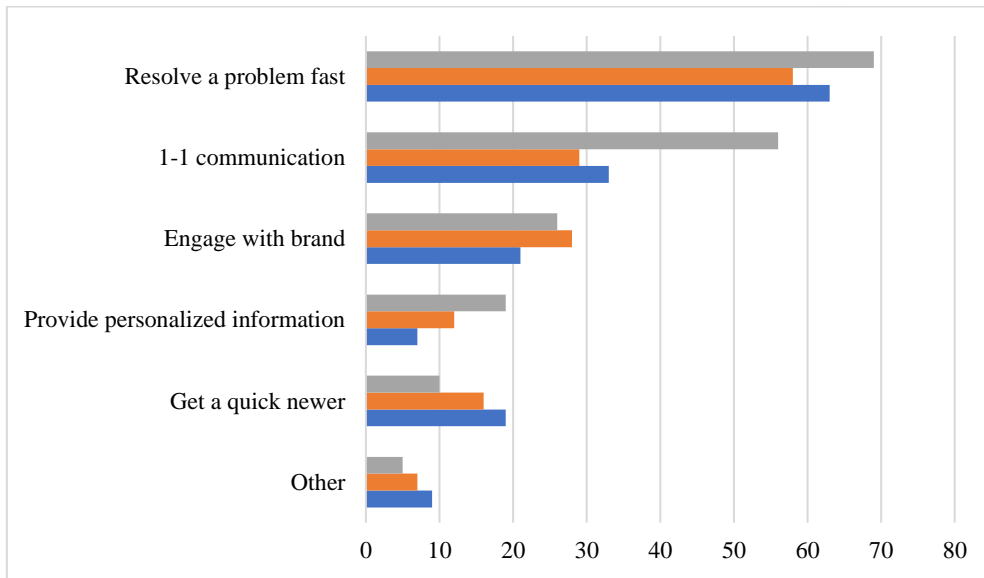
Figure 5: Consumer Preferences for Brand Interaction Techniques.

4.5. Benefits of chatbots

As found in Figure 6, there are various benefits and advantages that customers experience while utilizing chatbots. The most outstanding advantage that customers experience is that their protests are settled rapidly while utilizing chatbots instead of customary customer care, trailed by each moment of each and every day organization, second response, ease of use, and superb experience.
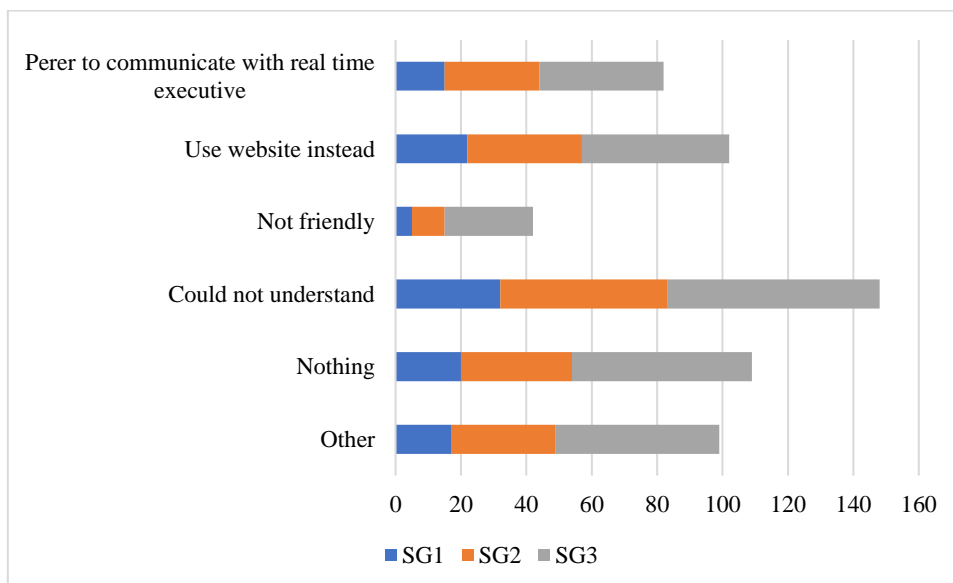

Figure 6: Causes of Automated System Unhappiness among Customers.

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4.6. Factors resisting customers from usage of chatbots

Respondents were asked what factors prevented them from using chatbots, and the main one that they expressed was that "chatbots couldn't figure them out." Other concerns included poorly disposed correspondence, the desire to use a website to learn more subtleties, and the possibility of speaking with a constant specialist.
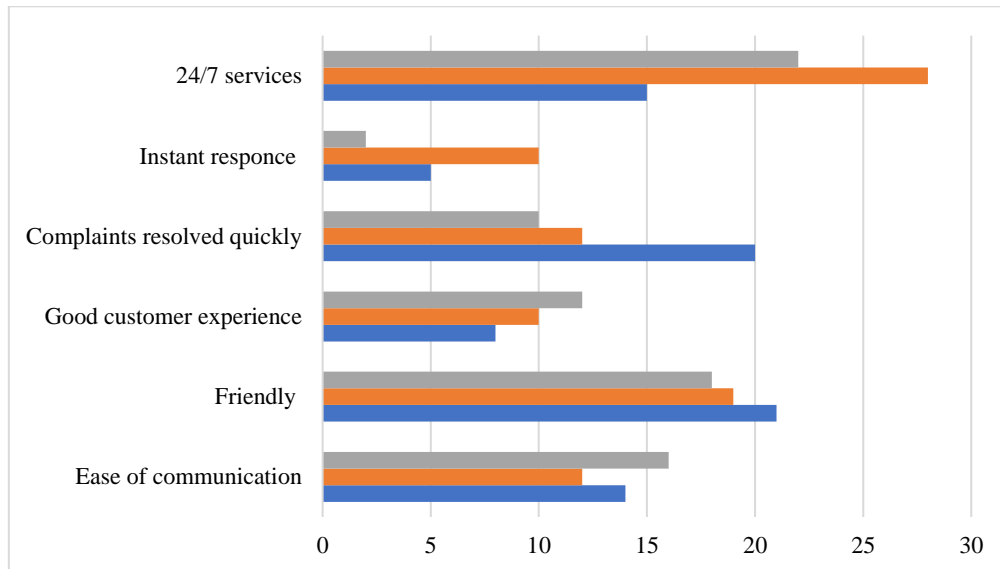

Figure 7: Client Contentment with Customer Support Features.

5. CONCLUSION

The emergence of new technological innovations has disrupted communication between businesses and customers, especially in the marketing sector where artificial intelligence (AI) technologies are being employed more and more. As a result of this change, retailers are using advanced phases to advance things, which has significantly advanced web-based purchases and generally adjusted consumer dynamic cycles. Chatbots are becoming an increasingly common tool in customer communications as customers become more engaged with digital marketing channels and businesses use two-way communication strategies. According to a recent study, chatbots have an impact on the entire dynamic engagement, from the pre-buy to the post-buy phases, based on surveys completed by 100 respondents. While a personalised understanding and sincere dedication during the buy stage increase readiness to purchase, tailored incentives and recommendations expedite purchases. Customers are obligated to revisit purchases after making them if they ask for refreshes. A proposed 8-step achievement system for the

acceptance of chatbots in advanced showcasing correspondences takes these findings into account and emphasises the profound impact of these advancements on consumer behaviour and marketing strategies.

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Faran Izhar
Saher Nabi

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