



**Title: Enhancing Customer Communication in the Tourism Industry:
The Use of AI and Chatbots**

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Table of Contents

Abstract	3
1. Introduction	4
1.1 Background	4
1.2 Problem Statement	4
1.3 Research Objectives	4
1.4 Significance	5
2. Literature Review	5
2.1 Digital Tourism Consumer Behavior Theories	5
2.2 Chatbot and AI Technologies in Tourism	6
2.3 Customer Engagement and Personalization Implication	6
2.4 Customer Service Transformation	7
3. Methodology	7
3.1 Research Design	7
3.2 Data Collection	7
3.3 Analytical Framework	8
3.4 Limitations	8
4. Findings	9
4.1 Case Study 1: ChatBotlr, Marriott International.	9
4.2 Case Study 2: BlueBot (BB) of KLM Royal Dutch Airlines.	10
4.3 Case Study 3: Booking.com -AI- Assistance Platform	11
4.4 Cross-Case Analysis	12
5. Discussion	12
5.1 Strategic Implication of the Business of Tourism.	12
5.2 Influence on the Decision-Making of the Consumers.	13
5.3 Customer Loyalty Development	13
5.4 Challenges and Limitations	14
5.5 Future Trends and Opportunities	14
5.6 Strategic Recommendations	15

6. Conclusion	16
7. References	18
Appendices.....	18

Abstract

The inclusion of the artificial intelligence and chatbots in communicating with customers has brought transformational changes in the tourism industry. This research paper will discuss the use of AI communication devices to improve customer interaction, customization, and service provision in tourist companies. This study is based on the consumer behavior theories in Technology Acceptance Model and Uses and Gratifications Theory., and examines practical applications of the top tourism companies like Marriott International, Booking.com, and KLM Royal Dutch Airlines. The results demonstrate that the AI chatbots can greatly optimize response times, raise the level of booking conversions, and customer satisfaction, and have certain issues connected with the shortage of emotional intelligence and the cost of the implementation, which can be identified through the analysis of qualitative case studies and discussion of the industry reports. The paper shows that the integration of AI cannot be successful without a balanced approach between automation and human touchpoints, focus on personalization features, and the ability to sustain a process of continuous learning. These lessons contain practical suggestions that tourism companies can use to streamline their digital communication efforts in a more competitive market.

1. Introduction

1.1 Background

The worldwide tourism sector produces more than 9.9 trillion in yearly expenses and contributes to about 10 percent of the global GDP, which means that efficient communication with customers is a crucial competitive edge (World Travel and Tourism Council, 2024). Traditional ways of communication are no longer adequate in response to the changing consumer expectations in an age of instant gratification and personalization of experiences. The introduction of the artificial intelligence and chatbot technologies has fundamentally changed the manner in which tourism businesses communicate to customers across the entire travel process, starting with inspiration and continuing with post-trip communication.

1.2 Problem Statement

The pressure is rapidly increasing on tourism businesses to offer customers direct, personalized and smooth communication through different touchpoints within the scope of managing costs of business. Conventional customer service designs fail to keep up with the 24/7 availability needs, multilingual needs, and instant response needs. About 82 percent of travelers require quick replies to their requests, and most tourism businesses do not have the means to satisfy such demands with the help of human agents only (Salesforce, 2024). Naturally, this disparity between customer needs and organizational strengths establishes a possibility of AI-based solutions.

1.3 Research Objectives

This study aims to:

- Study the role of AI chatbots in business communication of tourism.
- Examine how these technologies affect engagement and personalization of customers.
- Test real life applications and their performance.
- Search opportunities and challenges associated with AI-based customer communication.
- Offer evidence-based suggestions to successful integration of AI.

1.4 Significance

The significance of AI in the framework of tourism communication is a critical aspect that needs to be understood as the sector becomes more digitalised. The study provides a hands-on contribution to the tourism practitioners who can improve customer relationships with the focus on optimizing their operations, which subsequently affects the booking decisions, customer satisfaction, and retention.

2. Literature Review

2.1 Digital Tourism Consumer Behavior Theories.

Technology Acceptance Model (TAM)

The Technology Acceptance Model developed by Davis (1989) offers a background knowledge of the consumer adoption of new technologies. Perceived usefulness and ease of use have a direct positive effect on customer willingness in terms of AI chatbots in the tourism context. The study conducted by Ukpabi and Karjaluoto (2018) proves that the rate of adoption is much higher when the travelers find chatbots helpful in planning their trips, which are easy to communicate with. The model describes the success of intuitive value-delivering AI interfaces, and the failure of complex or limited systems.

Uses and Gratifications Theory

This is a media based theory that elucidates the reason why people actively pursue certain channels of communication to fulfill a certain need (Katz, Blumler, and Gurevitch, 1973). In tourism, travelers with the help of AI chatbots seek various gratifications such as information seeking, convenience, entertainment, and social interaction. The research indicates that the main instrumental functions of the chatbots used by travelers include booking support and destination knowledge, and that more and more are curious about the features of conversations and entertainment that contribute to the experience (Melian-Gonzalez et al., 2021).

Customer Journey Theory

The modern tourism customer experience involves five steps, dreaming, planning, booking, experiencing, and sharing (Google Travel, 2023). The functions of AI chatbots at every stage are

unique. At the dreaming stage, chatbots will deliver destination inspiration by making personalized recommendations. They provide elaborate itinerary recommendations in planning. They do friction reduction and streamline transactions at booking. During the experience, they are helping in real-time and after the trip they are facilitating feedback and enticing repeat involvement.

2.2 Chatbot and AI Technologies in Tourism.

Evolution and Capabilities

The past chatbots have been rule-based systems but have now become advanced AI-based chatbots supported by natural language processing, machine learning, and predictive analytics. The modern chatbots have the ability to make sense of the context, read emotions, support more than one language, and learn as the interaction happens to keep improving over time (Buhalis and Sinarta, 2019). The advanced systems are connected with the backend databases, where real-time access to the availability, pricing, and customer history is possible.

Types of Implementation

Tourism enterprises use chatbots on different platforms such as websites, app, social media, and messaging apps such as WhatsApp and Facebook Messenger. Applications run to basic FAQ bots that respond to standard queries to more advanced virtual assistants that handle all the steps of a booking. The most recent best practices are hybrid models of AI automation and human escalation agent, which would enable efficiency without compromising the quality of service on challenging issues.

2.3 Customer Engagement and Personalization Implication.

Engagement Enhancement

It has been proven that AI chatbots have a drastic effect on customer engagement rates. It has been demonstrated that the engagement rates of businesses that apply conversational AI are 40 times greater than those of traditional methods of communication (IBM, 2023). Chatbots provide interaction by resolving in real-time, proactive interactions, interactive content delivery, and ongoing conversations that keep the customer interested in the process of making decisions over a long period of time.

Personalization Capabilities

Artificial intelligence makes it possible to achieve a high level of personalisation since customer data, behavioral patterns, and preferences are analysed and provide them with personalised recommendations. Algorithms of machine learning are used to analyze the booking history, the browsing behavior, demographics, and real-time context to generate personalized experiences. A research by Neuhofer et al. (2021) shows that seven out of ten tourists choose a brand that can tailor them, and AI-based personalization can boost conversion rates to 25 percent in tourism.

2.4 Customer Service Transformation.

The core of AI chatbots is to reorganize the customer service delivery in terms of 24/7 instant availability, the absence of waiting time, the quality of services, their provision at all times, the ability to do so at peak times, and cost-efficiency. Research has shown that chatbots are capable of responding to as many as 80 percent of automated customer requests without human attention to enable human operators to deal with high-value interactions with customers that demand emotional intelligence and innovative problem-solving (Gartner, 2024).

3. Methodology

3.1 Research Design

The proposed research is based on a qualitative research methodology, which involves the use of a case study in investigating the application of AI chatbots in the tourism sector. Case study research is especially useful in researching modern phenomena in the framework of real-life conditions, which can deeply examine how and why AI technologies affect the communication with customers (Yin, 2018).

3.2 Data Collection

Secondary Data Sources

- The study consults various secondary data such as:
- Tourism, technology, and business management academic journal articles.
- Organization reports like Phocuswright, Skift and World Travel and Tourism Council within the industry.
- Whites papers and case studies of company in technology providers of tourism.

- Statistics and performance indicators of tourism businesses published.
- Guides to technical documentation and implementation.

Case Selection Criteria

The selection of three case studies was done according to the following criteria:

- Use of AI chatbots in front office.
- Overall performance information and results are available publicly.
- The coverage of various sectors of tourism (accommodation, transportation, online travel agencies).
- Geographic differentiation and size of operations.
- Acceptance as technological adopters in the industry.

3.3 Analytical Framework

Thematic coding is used in the analysis to find the patterns in case studies, consider implementation strategies, technological capabilities, customer engagement outcomes, personalization approaches, impacts it has on operations, and challenges it faces. Cases are mentioned separately and then the cross-case analysis is performed with a view of determining the similar success factors and the varied methods.

3.4 Limitations

This study has a number of limitations. Use of secondary data leads to lack of primary data collection to the customers and tourism professionals. The case studies target large businesses that have high technology funds, which may restrict externalisation to small and medium tourism companies. The fast-growing AI technology implies that the results can be in need of revision as the capabilities develop. Also, proprietary business information restricts access to information on specific costs of implementation and some measures of performance.

4. Findings

4.1 Case Study 1: ChatBotlr, Marriott International.

Implementation Overview

In 2016, Marriott International introduced ChatBotlr to Facebook Messenger and Slack, which is one of the first hotel chains to adopt AI-based customer communication. The chatbot helps customers in hotel searches, destination advices, booking services and concierge services. ChatBotlr is connected with Marriott reservation system and loyalty, and it gets access to profiles of customers to create a personal experience.

Technological Capabilities

Chatbotlr makes use of natural language processing to comprehend the inquiries of guests using conversational language. The system identifies the purpose of travel, preference of destination, flexibility in date and limitations in the budget. Machine learning models utilize personal customer data such as past stays, preference tags, and loyalty level status in order to make suggestions. The chatbot is capable of visual content processing, so the user can share images of the types of rooms they want or the places they want to visit to communicate more intuitively.

Customer Engagement Results

Marriott reports that a Chatbotlr has attained 60% rate of engagement among the users who started a conversation, which is very high compared to the traditional email marketing campaigns of 20-25% on average. The chatbot can respond to more than 2 million conversations each year, and 45% of the interactions are out of regular business hours, which can prove that it is worth 24/7 availability. ChatBotlr interaction scores are 4.2 out of 5 on customer satisfaction, which is similar to human agent interaction scores on the routine inquiries.

Personalization Impact

ChatBotlr is a highly personalize recommendations service by accessing loyalty data in Marriott Bonvoy. The system identifies recurrences, calls them by name, mentions staying history and provides recommendations on the properties based on exhibited preferences. This customization helped to increase the number of direct bookings via the chatbot channel by 25% over generic

promotion messages. Customers that participate in the loyalty programs focuses on ChatBotlr demonstrate 30 percent increased annual expenditure as compared to the customers that participated only in the conventional booking platforms.

4.2 Case Study 2: BlueBot (BB) of KLM Royal Dutch Airlines.

Implementation Overview

In 2016, KLM Royal Dutch Airlines launched BlueBot to help customers with booking details, flight streams, boarding passes, and general queries with the assistance of Facebook Messenger, WhatsApp, and Twitter. The airline receives more than 15,000 customer messages each week via the social platforms and the BlueBot responds to some of them amounting to about 60,000 of these messages weekly.

Technological Sophistication

BlueBot has a high-level natural language understanding that is able to handle customer queries in 13 languages. The system is linked to passenger service systems of KLM where real-time flight information, reservation details and operational details are accessed. The ability of sentiment analysis enables BlueBot to identify customer frustration or urgency and automatically forward complicated issues or emotionally colored problems to human agents. The chatbot is a machine that gets to know more with each interaction and becomes more global and specific with its answers.

Operational Efficiency

According to KLM, there is a lot of operational payoff associated with the implementation of BlueBot. Turnaround time dropped by reducing the average time in 4 hours to less than 10 minutes in responding to routine queries. The airline saved 30% of costs of customer service operation, and it also managed to increase the indices of service quality. In abnormal operations like weather, BlueBot automatically tells the affected passengers and offers rebooking opportunities to avoid the call centers by 40 percent at peak times of such crisis situations.

Improvement of Customer Experiences

The mean scores in terms of customer satisfaction on interactions with the BlueBot are 4.5 on information request requests and 4.0 on service recovery cases. Younger travelers in particular are

finding the real-time quality of the chatbot reply especially appealing to them with 72% of passengers younger than 35 years old indicating that they would like to use chatbots to answer simple questions. The sentiment analysis of KLM on social media indicates that there are 65 percent positive mentions of chatbot interactions, which means that customers accept it well.

4.3 Case Study 3: Booking.com-AI- Assistance Platform.

Implementation Overview

The booking.com has also incorporated AI in its customer experience as chatbot features are incorporated in its mobile application and its web platform. The platform has a reported 28 million destinations in 154,000 destinations which have to be handled using advanced AI to meet the needs of various customers. The artificial intelligence assistant assists in accommodation search, property-specific questions, bookings, and post-booking services.

State-of-the-Art Advanced Personalization Engine

The AI uses 1.5 billion pieces of customer data to provide hyper-personalized recommendations to its customers, Booking.com. This system takes into account search history, booking, review behavior, price sensitivity, and real-time data, such as the current location and the time of the search. The machine learning algorithms forecast the customer preferences with a higher level of validity attaining 85 percent relevance scores of the top three recommendations. The site is alternated through the AI, which changes the tone of communication, the depth of the content, and the promotional messages depending on the profile of the customers.

Conversion Impact

The introduction of AI-based communication has had a significant effect on the metrics of conversions. According to Booking.com, customers who interact with AI assistants are more likely to be converted (increased by 35) than those who only use the search option. The rate of cart abandonment dropped by 28 percent following the introduction of proactive chatbot-based interventions that were responding to frequent hesitation issues. The real-time answering of property specific questions by the AI assistant eliminates friction during the decision making process and this is part of the consideration time that was reduced to 1.8 days as compared to 3.2 days on average.

4.4 Cross-Case Analysis

Common Success Factors

There are some trends that are evident in successful implementations. First, it is necessary to integrate with the available business systems to deliver value. Chatbots that can retrieve real time inventory, customer profiles and operational data can offer significantly more utility compared to standalone systems. Second, hybrid systems that use AI effectiveness and human expertise are more effective than fully automated systems. Third, the performance can be improved in the long run due to constant learning processes. Fourth, engaging in proactive communication is another motivating element to interact not just reactively with a customer.

Technological Convergence

These three cases indicate advanced natural language processing, personalization through machine learning, multi-platform availability, and sentiment analysis. This technological convergence indicates that there is an agreement in the industry on the capabilities required to have effective AI communication tools in the tourism industry. Companies that are investing in these base technologies place themselves in a competitive position irrespective of the industry focus.

Performance Metrics

The measurable benefits are present across all cases such as the shortened response times (average 85% lowered), the cut in operational expenses (20-35% saved), the improved conversion rates (25-35% rise), the improved customer satisfaction levels (average 4.0-4.5 out of 5), and widened coverage (24/7). These ratios affirm AI chatbot ROI and the need to continue using the technology.

5. Discussion

5.1 Strategic Implication of the Business of Tourism.

The case studies have shown that AI chatbots are not only the cost-saving power but also the strategic resources that allow the establishment of the competitive advantage. The success of tourism businesses in utilizing AI communication technologies is beneficial to a company in terms of customer acquisition, retention, and maximizing lifetime value. The information indicates that

AI adoption must be regarded as an infrastructure necessity, as opposed to optional improvement, as the consumer demands keep changing to focus on immediate services that are personalized and customized.

5.2 Influence on the Decision-Making of the Consumers.

AI chatbots have a proven impact on the process of travel decision making. Chatbots eliminate friction in the customer experience by making it less expensive to search information, answer questions instantly, offering tailored suggestions, and simplifying processes involved in the booking process. This influence is described by the Technology Acceptance Model in the following way: perceived usefulness and ease of use directly cause adoption and behavioral intention. The chatbots are viewed as friendly and easy to use when travelers see such technologies as really useful, and these can become the channels of communication that should be used to make final decisions about buying a product.

The time factor becomes especially important. The classic stages of research might take days or weeks; instant provision of information made possible by AI will reduce decision-making time and may lead to more impulse-based bookings, at the same time, permitting more in-depth research through information access with a single button press. This paradox indicates that AI can shorten and elaborate customer preferences and travel complexity decisions.

5.3 Customer Loyalty Development.

AI chatbots are useful in generating loyalty in a variety of ways. Regular quality of service instills good brand association. Customization will make customers feel special and known. Effective solutions to problems create credibility. Repeat interaction is promoted by easy access to communication. This effect is especially manifested in the statistics of the Marriott loyalty program integration whereby users of the chatbot showed much higher levels of spending as compared to those who use the traditional channel.

Nevertheless, genuine relationship-building is a necessity of the development of loyalty and is a burden to AI systems. Although chatbots are highly efficient in terms of transactions and information personalization within the pattern of data, they do not, yet, possess real emotional intelligence and empathy that are essential in building proper relationships with customers. This

weakness indicates that AI must complement and not substitute the efforts of human relationships building especially in high-value segments of customers.

5.4 Challenges and Limitations

EI gaps refer to discrepancies among emotional states.<|human|>Emotional Intelligence Gaps.

With technological advances, AI chatbots have a hard time with emotional nuance, cultural sensitivity, interpretation of humor, and complex problem-solving that needs creativity and judgment. Human empathy and adaptive decision-making are often more effective in such circumstances when customers have stressful experiences that include travel disruptions, cancellations, or complaints and need to be handled by humans. KLM case analysis has shown that this limitation is known by the means of the strategic escalation procedures that guarantee the involvement of humans in case of the emotionally-charged interactions.

Costs and Complexity of Implementation

The application of AI chatbots is a costly undertaking that consumes significant amounts of money in technology infrastructure, data integration, and maintenance, training, and continuous improvement. Small and medium tourism enterprises might not have the means to implement the sophisticated implementations thus this may present them with competitive disadvantages. Also, there are technical factors such as complexity of system integration, data quality specifications, security and privacy issues and multilingual accuracy, which are obstacles to adoption.

5.5 Future Trends and Opportunities.

Voice-Activated Interfaces

The voice technology is the future in tourism communication. Voice-activated booking, managing an itinerary, and access to travel information can be done by integrating with virtual assistants such as Amazon Alexa, Google Assistant, and Apple Siri. Voice interfaces further minimize friction, as typing is also eliminated, useful especially when travelling with a mobile device and requiring hands-free support.

Anticipatory and Anticipatory Communication

Developed AI will predict the needs of more customers even before they make the desired request. Predictive analytics are able to determine the best time to communicate with a business partner, anticipate possible problems, offer complementary services, and also present relevant information depending on the situation. This dynamic change in customer relationship is based on the shift in communication which is from reactive to proactive communication.

Augmented Reality Integration

AI chatbots used in coordination with augmented reality would result in immersive destination exploration experiences. The customers would be able to virtually explore hotels, explore rooms in 3D, view destinations in AR, and get a virtual tour guided by AI and then book. This technology integration boosts confidence of decisions and generates pre-trip pre-trip memories.

Increased Emotional Intelligence

Continued study in the area of affective computing seeks to enhance the AI emotional recognition and response systems. The chatbots in the future can be able to notice certain important emotional signals by analyzing the text, recognizing the voice tone, and, probably, the facial expression, which makes the interaction more empathetic. Although the existing systems are still in such a state, the course of improvement implies more and more emotionally intelligent AI communication tools.

5.6 Strategic Recommendations

Adopt Hybrid Models

The tourism companies need to apply the hybrid communication methods involving the integration of AI efficiency with human skills. The bots are supposed to be used in routine and transactional communication and human agents in the complex, emotional, and high-value interaction. Escalation procedures are clear to make the process of transition between AI and human support as smooth as possible.

Prioritize Personalization

Investment in data infrastructure that allows significant personalization have high payoffs. There should be customer data across the touchpoints, machine learning to predict preferences, customer control on the level of personalization, and a continuous refinement of the algorithms.

Focus on Continuous Improvement

The AI systems must be constantly improved. Tourism enterprises need to put in place customer satisfaction feedback, A/B testing of message delivery strategies, analysis of conversation history of areas of improvement, and revision of knowledge base depending on evolving customer requirements and business products.

Maintain Transparency

Trust is established by clear communication on the use of AI. Companies must reveal how often their customers engage with chatbots and humans, how customer data can be used to personalize, give their customers easy access to human beings when they want them, and demonstrate their concern about privacy.

Begin Strategic, Grow Progressively

Instead of broad implementation right away, tourism companies should find high impact use-cases that could be deployed first, pilot technology before widespread deployment, seek customer feedback to drive upgrades and roll out more features slowly as ability to meet customer confidence increases.

6. Conclusion

This study has proven that AI and chatbot technologies radically change the customer communication within the tourism sector, bringing tangible improvements in interaction, customization, and quality of the service. Understanding the practical applications of AI in the example of Marriott International, KLM Royal Dutch Airlines, and Booking.com, the study demonstrates that the application of AI must be well-developed, combined with a strategic approach to its implementation, and the understanding that it should add to human interaction instead of remove it completely.

The theories of consumer behavior such as the Technology Acceptance Model and Uses and Gratifications Theory can offer frameworks explaining why the travelers use and appreciate AI communication tools. The instant access to information, personalized recommendations, and

efficient service delivery offer real usefulness of chatbots and, thus, makes the adoption rates higher and enhances customer satisfaction.

A critical analysis of behavioral patterns reveals that contemporary travellers are demanding more customized, instant and smooth communication throughout the whole trip. AI chatbots meet these expectations and offer tourism businesses efficiency of operations, scale, and competitive advantage. Nevertheless, such issues as the limitations of emotional intelligence, the problems of the implementation complexity, the privacy concerns, or the over-automation threat are to be managed carefully.

The new solutions offered are characterized by the hybrid approaches to balance automation with the touchpoints of a human being, strategic personalization based on the customer information in a responsible way, constant improvement processes, building a trusting atmosphere through the creation of transparency, and the gradual nature of scale changes to provide learning and adjustment. The techniques place tourism companies in a position to take full advantage of AI and reduce risks.

In the future, new technologies, such as voice interfaces, predictive analytics, integration of augmented reality, and more advanced emotional intelligence will continue to change the nature of tourism communication. Companies that invest strategically in these strengths and at the same time keep their relationship with customers genuine will prosper in an ever more digital tourism environment.

Finally, AI and chatbot technologies are robust to allow the tourism business to provide the highest customer experience at scale. To achieve success, one must consider technology as an addition to human hospitality and not a substitution as AI can spend its time on the high-value interactions as the staff concentrates on the tasks requiring attention. The balanced nature of this strategy keeps the human touch and realness of relationships that constitute an unforgettable experience in traveling, yet it exploits the potential of technology that matches the current demand of the modern travelers.

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Appendices

Appendix A: Chatbot Feature Comparison Matrix

Feature	Marriott ChatBotlr	KLM BlueBot	Booking.com AI
Natural Language Processing	Yes	Yes	Yes
Multi-language Support	Limited	13 languages	43 languages
Booking Integration	Full	Full	Full
Loyalty Program Access	Yes	Yes	Yes
Visual Recognition	Yes	No	Limited
Sentiment Analysis	Basic	Advanced	Advanced
Proactive Communication	Limited	Yes	Yes
24/7 Availability	Yes	Yes	Yes

Appendix B:Summary of Key Performance Metrics.

Response Time Improvements:

- Marriott: 60-percent decrease in the period of responding to routine inquiries.
- KLM: 4 hours down to less than 10 minutes average.
- Booking.com: 95% of queries responded to in real time.

Scores on Customer Satisfaction:

- Marriott ChatBotlr: 4.2/5.0
- KLM BlueBot: 4.5/5.0 (information), 4.0/5.0 (service recovery).
- Booking.com: 4.3/5.0 average

Conversion Impact:

- Marriott: 25 percent more directs via chatbot.
- KLM: 40% lessening in the volume of calls in disruptions.
- Booking.com: Chatbot users generate 35% more conversions.

Operational Efficiency:

- Marriott: 2 million and over discussions taken care of in a year.
- KLM: 15,000 weekly messages in 60 percent of messages that do not need a human touch.
- Booking.com: 28% rate of cut in cart abandonment.

Appendix C: Framework of application of Consumer Behavior Theory.

1. Tourism AI Technology Acceptance Model (TAM):
2. Perceived Usefulness: Travelers determine the value of chatbots based on the accuracy in the information given, time-saving, personal recommendations, and convenience in booking.
3. Perceived Ease of Use: The intuitiveness of the interface, naturalness in flow of conversation and low effort needed affect adoption.
4. Attitude Toward Use: Usefulness has a combined effect with ease to produce the overall attitude.
5. Behavioral Intention: Positive attitudes will lead to the intention to use chatbots in travel planning and booking.
6. Real-Life Use: Repeated use of chatbot and preferential use of chatbot to other channels are symptoms of intention.

Applications and Gratifications in Tourism Situation:

- Information Seeking: Destination information, price, availability.
- Comfort: Fast reservation, immediate response, 24 hour availability.
- Personal Identity: Recommendations based on preferences.
- Entertainment: Interactive experience, interactive dialogue.
- Social Interaction: Conversation experience, relationship development.