

Evaluating the Effectiveness of AI Chatbots on Website Performance



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**Santhosh Balassoupramanien
Ganapathy Arul**
Pondicherry central university
(santhoshhce@gmail.com)
(pgarulibm@gmail.com)

The main purpose of the study remains to provide an overview of the benefits of AI chatbots-based websites compared to traditional websites using a comparative approach. Methodology: The study employed a mixed-methods approach to conduct the data analysis. A set of 200 respondents has been considered as the sample for the survey questionnaire conducted with the target of conducting Primary Quantitative Data Analysis. The close-ended questions were generated touching all the aspects related to the process of generating a Chatbot. Both the users of chatbot-enabled websites and the companies that use chatbots as customer service representatives were taken into consideration as samples. Results: The results of the study show that the users have a higher response in support of Chatbot-based website usage, and they do agree that chatbots have been working as a feasible way of exploring the processes regarding solving the issues related to the company tasks. On the other hand, the chatbot users have agreed that sometimes the chatbots are slow and their repetitive questions consume more time, and in cases where time is less for generating proper solutions, a higher chance of direct conversation with an agent from the company is required. Limitations: The study could conduct an interview-based solution generation method that would involve a primary qualitative data analysis to understand the company leaders' views regarding the use of AI chatbots.

Keywords: AI Chatbots, Customer satisfaction, Engagement Metrics, Website Performance, Mixed method Data Analysis

1. Introduction

Within this fast-paced world, even with Artificial Intelligence, chatbots are a significant part of enhancing the performance of websites. Evaluation of the AI chatbot in developing website performance by analysing various metrics of the involvement of consumers, time usage and the satisfaction rate of customers. Chatbots influence the experience level of customers by providing instant assistance on websites and diminishing the rate of bouncing. These chatbots help to streamline the working process by handling frequently asked queries and allow human assistants to focus on severe critical issues. Monitoring the reviews of customers and providing them with effective assurance as per their requirements, AI chatbots improve the functions of websites and instigate the loyalty of customers.

The world becomes digital, and the processes are transformed drastically with the processing of time. With this rapid growth of online customers and business processes, the marketplace is pushing the overall system toward e-retailing services and thus, the AI chatbots are important to develop the Performance level of different websites.

These types of chatbots are becoming popular with customers as they can provide instant results as per the requirements of consumers. Studies show that the leading companies within the start-up business of AI chatbots are investing, as ASAPP used 380 M USD and Move works with 305M USD as per the information of the 2023 survey worldwide (Thormundsson, 2024). The “Personalised interactions” and the availability of those for all time are the two important aspects of accessing the AI chatbots on websites. Zoho Sales, the most prominent software company, has initiated their “Zoho SalesIQ’s Codeless bot” to use the effective AI-powered chatbot within their website without the knowledge of “extensive coding” (Zoho, 2024). Providing their customers with the experience of an “omnichannel experience”, this organisation has developed their services with the inclusion of an AI chatbot within the website. Providing comprehensive results to the issues of chatbots, this organisation has evolved its significance within the market.

Various issues are there with using traditional websites without AI chatbots, including the *poor quality of the experience level of consumers*. The “robotic Chatbots” are made with scripts, and this is the reason behind their inability to engage the users within the conversation of a “dynamic dialogue.” Studies show that within the recent few years, the size of the market is increasing, and the proposed rate for 2030, will be 206.95 U.S. Dollars (Statista, 2024). The *inability to solve personalised issues* is the most important issue with traditional websites. Those websites could not recognise the exact issues and requirements of customers and provide customised responses to the users. *Limited adaptability*, embedded within the traditional websites, struggles to understand the inputs rather than those scripted within them as the “programming scenario” (Panda and Kaur, 2023). They fail to handle the “complex dialogues” of users and the maintenance of the hose is hectic as they do not have the learning capability.

Aim and Objective

The study aims to understand and evaluate the effects of AI-based chatbots on enhancing the performance of websites for delivering satisfaction to customers.

Objectives

- To understand the influence of chatbots based on AI upon the navigation of engagement metrics of users including the website session duration, page views and rate of interactions
- To evaluate the impact of Artificial Intelligence chatbots on delivering customer satisfaction compared to the interference of human customer care representatives
- To discuss the role of AI-enabled chatbots in manipulating website performance including factors like load times, bounce rates and conversion rates.
- To analyse the benefits of using AI chatbots powered by AI developed by bot-building software like Zoho SalesIQ that provides chances for codeless bot-building.

Questions

1. How does the AI chatbot influence the navigation processes of user engagement metrics including different features?
2. How does an AI chatbot play a more beneficial role than the customer service executives?
3. What role does the AI chatbot play in manipulating the website's performance?
4. What are the benefits of using AI chatbots based on platforms like Amazon Lex and Zoho SalesIQ?

Hypotheses

H₁: AI Chatbots have been able to provide a better customer satisfaction level regarding the development of the experience of users in a website and enhance the overall website performance quality.

H₀: AI chatbots are not able to enhance customer satisfaction level regarding enhancement in the user experience in a website and are also not able to develop overall website performance.

H₂: Zoho Sales IQ's AI-driven operational techniques enhance consumer engagement compared to traditional ways of sales.

H₀: Zoho Sales IQ's AI-driven solutions are not as efficient as traditional ways of sales.

2. Review of Literature

Role of AI Chatbots in Navigating Consumer Satisfaction and User Engagement

The adoption of AI-based chatbots in businesses critically impacts breaking down the barriers of communication between business officials and consumers to enhance their connectivity. The most important benefit of the AI-based chatbots in customer satisfaction generation includes the identification of gaps in the conversation between consumers and business officials, and sometimes that leads to missing out on the resolution of crucial and significant queries (Al-Shafei, 2024). AI Chatbots become helpful for consumers searching for a particular product by navigating them directly to the product checkout page rather than tiring the searching process from the large scale of inventory (Ekechiet *et al.* 2024). Furthermore, AI chatbots are available around the clock for companies that have limited working hours for their human employees to give properly organised and significant assistance to the consumers.

Challenges in Implementing AI Chatbots

Chatbot development is gradually becoming essential for most companies regarding maintenance of their website, but a significant set of challenges are present that create problems for the companies in implementing the chatbots to deliver a better user experience for the consumers. The most significant challenge is that the conversational flow of the chatbot-based conversation creates an experience for the consumers that the chats are scripted and mostly robotic, and there remains a significant lack of personalisation (Aleedyet *et al.* 2022). These automated sequence maintenance systems enabled within the chatbots create a significant problem for the consumers by repetitive redirection to the same loop of commands (Denecke *et al.* 2021). Moreover, in this era with decreasing time spent against one issue in the hands of the users, the

continual questions after questions with the interference of the distributed tree database system that acts as the main backbone of the AI chatbots lead users to a sheer amount of dissatisfaction through thrive within them.

Comparison between the AI Chatbots Enabled Website along with the Traditional Websites without Chatbots

There remains a significant set of benefits that are found in the usage of AI chatbots over the traditional websites that do not endure chatbots for the usage of the consumers. The two most used platforms that allow companies to easily enable chatbots based on the usage of AI are Amazon Lex and Zoho SalesIQ. Amazon Lex is mostly beneficial among all the chatbot-enabling platforms that allow the bot administrators to user-friendly interface development (Vishwakarma, A. and Pandey, 2021). On the other hand, the process has a straightforward deployment style that helps the teams in building, verifying and distributing the chatbots across different platforms using easy commands (Adamopoulou and Moussiades, 2020). Similarly, the ZohosalesIQ is mostly known for its easy, user-friendly and diverse range of options that open up the chances for organisations to create chatbots using the software. Navigation and announcements for creating promotional strategies for the chatbots have given the company the most beneficial task.

3. Methodology

Conducting research has been demonstrated by several authors to be followed by a set of methodological principles in which philosophical perspectives of the research have been recognised as the initial and most crucial aspect. According to Al-Ababneh (2020), the advancement of scientific practice based on people's worldviews and presumptions about the nature of knowledge is referred to as a paradigm to research philosophy. Among four major philosophies including, "pragmatism", "realism", "positivism" and "interpretivism", this study has been constructed by following the "positivism research philosophy". As mentioned by Park *et al.* (2020), in order to validate a priori assumptions, which are frequently expressed numerically, positivism uses the hypothetico-deductive technique, which allows for the derivation of functional correlations between explanatory and causative elements and outcomes. This makes philosophy one of the most suitable subjects for study.

Concerning the philosophical stance, a mixed-method approach has been undertaken in this study in terms of gathering and analysing data. "Primary quantitative data" has been gathered utilising a "Google Form" survey and using a variable-based questionnaire. Mixed types of survey questions including open-ended and close-ended question has been used with a multiple Likert scale for screening the collected data into quantitative one. In the survey process, 200 participants were selected by using the "purposive sampling technique". As mentioned by Campbell *et al.* (2020), this sampling process helps researchers in selecting samples that directly match the context of the study. In this regard, users of the Zoho SalesIQ's website users have been selected as samples for collecting primary quantitative data.

However, while quantitative data analysis, open-ended questions are eliminated and outcome from those sections has been analysed using a qualitative analysis process. On the other hand, in terms of collecting "secondary quantitative data" readily available resources such as company databases, and relevant online portals have been used as sources. Following the purpose of this study, secondary data has been

interpreted using the comparative analysis technique whereas, statistical analysis has been carried out to interpret the gathered "primary quantitative information". In the statistical analysis, descriptive statistics, correlation analysis, regression analysis and reliability statistics have been conducted by which the consumer preferences regarding post and pre-AI chatbot enhancement process have been analysed. The methodology had been selected for a more quantifiable means for gaining insight into the subject of efficiency and impact of Zoho SalesIQ as an AI-chatbot service for businesses and their internal operations in relation to business, web, and engagement performance as key takeaway for multiple stakeholders such as managers.

4. Results

Primary Quantitative Data Analysis

Reliability Statistics

Table 1 Reliability Statistics

Reliability Statistics	
Cronbach's Alpha	N of Items
0.856	24

The primary purpose of Cronbach's alpha in this study is to determine the internal validity of the conclusions drawn from the survey data. Izah et al. (2023) state that a Cronbach's alpha value of 0.8 or above may be regarded as a standard value that denotes excellent internal consistency of study findings, given the interrelatedness of the representative items are identified to be verified through internal consistency. The Cronbach's alpha value for this study was found to be 0.856, which may be regarded as proof of the high internal consistency in the recognition of strong interrelatedness among the items of the obtained results.

Descriptive Statistics

Table 2 Descriptive Statistics

Variables	Experience with Zoho SalesIQ	Influence on Engagement Metrics	Customer Satisfaction	Website Performance	Benefits of Bot-Building Software
Mean	1.61	2.77	2.94	2.82	2.91
Median	2.00	3.00	3.00	3.00	3.00
Mode	2	4	4	4	4
Standard Deviation	0.981	1.348	1.284	1.328	1.373

Descriptive statistics is an important analytical tool in statistical analysis, mostly used to summarise the whole amount of data gathered and analysed. In this sense, Cooksey and Cooksey (2020) said that the analysis helps the researcher visualise the whole amount of data that was gathered. The observation of the distribution of data through the central tendency and variance through the mean and standard deviation values indicates the presence of a clustered condition. There is a clustered condition as per the distance between the variance and central tendencies in the case of

“Experience with Zoho SalesIQ” (Mean= 1.61; SD= 0.981), indicating a close clustered condition within the mean and SD values. This is also similar in the case of “Influence on Engagement Metrics” (Mean= 2.77; SD= 1.348), and “Customer Satisfaction” with the mean value as 2.94 and SD value being 1.284. Additionally, the variable “Website Performance” (Mean= 2.82; SD= 1.328) and the variable “Benefits of Bot-Building Software” (Mean= 2.91; SD= 1.373) had been identified in presenting a clustered condition of the distribution of the central tendency and variance of the data as presented through the data of the survey.

Correlation Analysis

Table 3 Correlation Analysis

Correlation					
Variables	Experience with Zoho SalesIQ	Influence on Engagement Metrics	Customer Satisfaction	Website Performance	Benefits of Bot-Building Software
Experience with Zoho SalesIQ	1	0.190	-0.027	0.153	0.013
Influence on Engagement Metrics	0.244	1	0.489	0.467	0.330
Customer Satisfaction	0.373	0.546	1	0.578	0.527
Website Performance	0.335	0.454	0.355	1	0.704
Benefits of Bot-Building Software	0.288	0.566	0.583	0.493	1

The foundation of correlation analysis is mainly based on identifying linear interrelation between the variables of the research. As mentioned by Baaket *al.* (2020), although it is only effective for interval variables by design, Pearson's correlation coefficient is a de facto standard in the majority of areas. Considering this aspect, Pearson correlation analysis has been conducted in terms of identifying the correlation between the section variables identified in this study in which Experience with Zoho SalesIQ, Influence on Engagement Metrics, Customer Satisfaction, Website Performance, Benefits of Bot-Building Software are identified as variables used in terms of evaluating the effectiveness of AI chatbots on website performance using Zoho SalesIQ.

In this study, the correlation between the variable of influence on engagement metrics and customer satisfaction has been reported as 0.683 which indicates a high and positive correlation between these variables, indicating a positive and strong multicollinearity among the variables. On the other hand, the correlation value between website performance and the benefits of bot-building software has been recorded as 0.704. Considering this value, it can be considered that there is a significant correlation and a positive multicollinearity between website performance and the benefits of bot-building software. Overall findings of the correlation also critically reflect a significant correlation between the sectional variables reported in

the study. Hence, it can be considered that Zoho SalesIQ’s AI-driven chatbot plays a vital role in the development of website performance of its clients in a positive direction.

Regression Analysis

Table 4 Model Summary

Model Summary				
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.470 ^a	.221	.129	1.951

A linear connection between the variables identified and included in the questionnaire is shown by the R-value of 0.470, which may be regarded as a strong value in this study. The dependent variables' variations are represented by the R square value, and in this analysis, the estimated value is 0.221, which is likewise regarded as a high value and denotes a highly variant dependent variable that is strongly present in the data analysis. An ordered link between the variables is indicated by the accounted adjusted R square value, since the value implies that 22.1% of variance is explained by the model for regression analysis by the sample.

Table 5 ANOVA

ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	192.436	21	9.164	2.407	.001 ^b
	Residual	677.644	178	3.807		
	Total	870.080	199			

The fundamental idea behind regression analysis is the interpretation of a linear connection between variables, which is mostly applied when creating a linear relationship between variables in a certain distribution type. The primary purpose of the ANOVA model is to analyse the variations in the mean values of the variables included in this investigation. An effective difference between the variables used in this interpretation process is shown by the F value of 2.407 found in this specific study. A useful feature that shows the importance of the variables in gaining a comprehensive understanding of the study issue is the variation in the mean values of the variables. The sig value found in this study is 0.001, which is also a useful tool for determining how well the variables used in this specific study worked. The sig value particularly contributes to the assessment of the fact that there is a statistical significance among the linear correlation among the independent variables with the dependent variable. This could attest for the implication that Zoho SalesIQ experience in terms of engagement metrics, website performance, benefits of bot-building software are significantly related, though in terms of multicollinearity, customer satisfaction is a variable that is weaker in terms of connection and impact.

Paired Sample Test

Table 6 Paired Sample Test

Paired Samples Test									
		Paired Differences					t	df	Sig.(2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Hypothesis 1	What features of Zoho SalesIQ do you use most frequently? - How satisfied are you with the AI chatbot's ability to handle complex queries?	.570	2.339	.165	.244	.896	3.446	199	.001
Hypothesis 2	How has the AI chatbot impacted your website's conversion rates? - Did you face any challenges while integrating the AI chatbot with your existing systems?	2.120	1.499	.106	1.911	2.329	20.002	199	.000

The results of a paired sample test, in which the mean of two distinct variables is examined primarily to ascertain the position of the hypotheses formulated in this investigation, are depicted in the above figure. Both the rejection of the null hypothesis and the acceptance of the alternative hypothesis are indicated by differences in the mean value. There has been a documented substantial difference in the mean value in both situations. However, the t value for hypothesis 1 has been reported to be 3.446, whereas the t value for hypothesis 2 has been recorded as 20.002. In this study, the alternative hypotheses are accepted, whereas the null hypotheses are rejected, as shown by the positive values.

Qualitative analysis of open-ended responses

Most of the feedback identified in this section indicates positive aspects of the AI-chatbot by which organisations are getting positive impacts on the business performance in the competitive business scenario. However, a lack of personalisation in communication has been recognised as a crucial issue faced by the client organisations. Automatic interaction with visitors, however identified as an effective aspect enhancing consumer engagement in the company which is enhancing company performance more effectively. Streamlining customer interactions and providing instant responses to common queries has also been mentioned by several respondents as a valuable asset for the client companies by which the companies are generating performance more effectively.

Table 7 Systematic Coding for Open-Ended Responses Qualitative Analysis

Open-ended survey questions	Key concepts discussed	Developed coded theme
What features do you wish Zoho SalesIQ would add or improve to better meet your needs?	Performance metric; AI-driven chatbot system providing service performance improvement; satisfactory system features; enhancing user interface in designing; adding agent’s performance metrics	Features needed to be added in the system
Can you share a specific instance where the AI chatbot positively impacted your business operations?	Customer satisfaction growth; effective improving consumer engagement on website; customer data collection and analysis supported business performance development; helping system for support team and organisation employees; chatbot uses sales perspective to allow business performance improvement by letting multiple users take different action	AI-chatbot’s role in clients and their business
Do you have any additional feedback on your experience with the AI chatbot Using Zoho SalesIQ?	Positive impacts on business performance in competitive business scene; automatic interaction with visitors enhanced consumer engagement; streamlining consumer interactions are necessary; lack of personalisation features	Additional feedback gathered from the respondents

Features required to Add

In this particular section multiple viewpoints have been reported among which the agent’s performance metrics and user interface have been recorded as mostly mentioned aspects which is indicating a lack of proper features associated with this aspect. Considering this addition to the AI-driven chatbot system provided by the company will enhance the performance of this service. On the other multiple respondents have demonstrated that the system is already in satisfactory situation by which it can be stated that the system is already matching with multiple business needs. Overall, it can state that addition of agent’s performance metrics as well as enhancing user interface in the designing will enhance the performance of the system.

Zoho SalesIQ’s AI-Chatbot’s Role in Business of its Clients

The instances provided by the respondents mostly indicate the growth of consumer satisfaction by which it has been reported that the chatbots are effectively enhancing consumer engagement on the organisations’ website. On the other hand, several respondents provided responses regarding the development of business performance through encouraging data collection and analysis about the consumers. On the other hand, it has been demonstrated as helping system for the support team as well as the employees of the organisations. Considering the instances provided by the respondents’ it can be stated that the AI-chatbot utilised sales perspectives, allowing multiple users in terms of enhancing business performance in an effective course of action.

Additional Feedback of the Respondents

Most of the feedback identified in this section indicating positive aspects of the AI-chatbot by which organisations are getting positive impacts on the business

performance in the competitive business scenario. However, a lack of personalisation in communication has been recognised as a crucial issue facing by the client organisations. Automatic interaction with visitors, however identified as an effective aspect enhancing consumer engagement in the company which is enhancing company performance more effectively. Streamlining customer interactions and providing instant responses to common queries has also been mentioned by several respondents as a valuable asset for the client companies by which the companies are generating performance more effectively.

Key Findings

The findings of the primary data analysis through the quantitative means indicated the prominence of the experience of using Zoho SalesIQ to have an impact of the aspects of mostly operational and business performance functionalities such as web performance and engagement metrics and bot-building service integration. The qualitative findings had indicated the need for improving on a more customer centric level of functions such as personalisation and streamlining, as could be seen to indicate a potential interlink to the results of seemingly negative correlations within customer satisfaction and Zoho SalesIQ experiences. Moreover, the qualitative findings acquired from the responses to the open-ended questions of the survey illustrated a more precise image of the benefits and potential improvements that hold the opportunity to drive a better business and web performance-related activities.

Secondary Quantitative Data Analysis

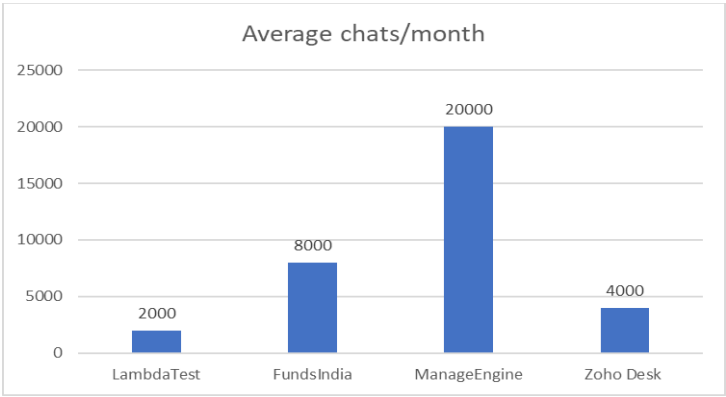


Figure 1 Average chats/month in Different Companies
(Source: Developed based on Zoho, 2024, Zoho, 2024, and Zoho, 2024)

In the above graphic presentation, it was observed that the average chats per month rate for Zoho SalesIQ was different for various companies that have taken up the AI chatbot solution. Lambda Test had noted around 2000 average chats per month. While Zoho Desk reportedly would handle over 4000 of the same. Around 8000 chats per month was the average score for Funds India. In the case of Manage Engine, more than 20000 chats per month were being handled by the support system of the company.

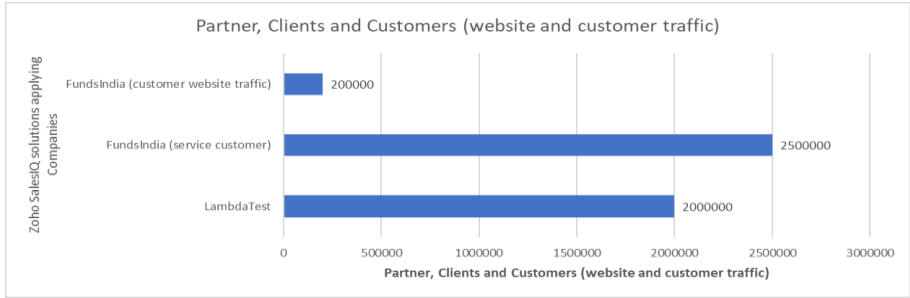


Figure 2 Chat per Month and Customer Traffic in Zoho Sales IQ Service Availing Companies
(Source: developed based on Zoho, 2024, and Zoho, 2024)

In case of the above graphical representation, it is observed that partners, clients and customers alongside website and customer traffic are some of the most dense contributors that the client companies have been availing with the application of Zoho SalesIQ services. In the case of Funds India, the company observed a potential increase in website traffic of customers and noted an organic traffic flow involving around 200000 customers. In the case of service customers, the same company had seen a really good operation metric of 2.5 million customers availing the services of the company and being handled through the AI chat bot solution. In the case of Lambda Test, the company had been able to cater to around 2 million customers simultaneously by applying the services.

5. Discussion

As per the above finding, it can be observed that Zoho SalesIQ as an AI chatbot solution is capable of contributing towards the development of website performance and operation metric of the client businesses that applied it. Zoho SalesIQ has more than 465,000 business and companies using its AI chatbots (Zoho, 2024). Better consumer engagement can ensure improvement in the website traffic. The above findings have in a sense aligned with supporting the current research hypothesis that claims that AI chat bots can provide better customer satisfaction levels based on the development of the experience of users in the website along with enhancing the overall website performance quality. This indicates in support of the research finding gathered in the above results section that it is indeed effective and valid hypothesis.

6. Limitations and Future Research

The study faced the potential limitation of being unable to incorporate any qualitative information into the study. Additionally, it could be assessed that this study is potentially capable of contributing to the vast literature of AI technology having an impact on the relationship between overall website performance and consumer engagement through its operation enhancement features and customisation characteristics.

7. Conclusion

In conclusion it can be noted that AI chatbot technology has an important role in the enhancement of overall website performance and operation metrics of a company that

implements them. There is a potential of growth and development for companies to expand their capacity for managing conversations and chats with a large scale of customer population. This is because of the customisation and personalised features that AI can deliver as a customer service instrument as opposed to its traditional customer service counterpart. The development of the above study observed that efficient customer engagement has a way of improving the overall operations of the organisation and hence boost the possibility for the company in terms of having better website performance.

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About Our Authors

Santhosh Balassoupramanien, a doctoral candidate at Pondicherry University with two years of academic research experience, is passionate about AI chatbots and their potential to revolutionize business communication. With 15 years of entrepreneurial experience, he has excelled in simplifying business processes and enhancing customer satisfaction. Santhosh has authored multiple research papers and actively participated in conference proceedings, sharing his insights on AI-driven tools. His unique blend of academic expertise and entrepreneurial skills drives his commitment to redefining interactions between businesses and individuals, paving the way for innovative solutions and technological advancements in artificial intelligence.

P.G. Arul, a distinguished academic, is a Professor and Head in the Department of International Business, Pondicherry University. With over two decades of teaching and research experience, his expertise lies in international trade and logistics. He has guided numerous Ph.D. scholars and published over 80 research articles and several books. He has led major research projects funded by UGC, ICSSR, and DST, addressing impactful topics such as GST, CSR, and entrepreneurship. Notably, he secured ₹100 lakhs to establish the ASPIRE Livelihood Business Incubator on campus. His work bridges academia, industry, and society, contributing significantly to education and social development.