

“Artificial Intelligence-Enabled Restaurant Services and Customer Experience: A Conceptual Framework for Customer Satisfaction and Loyalty”

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DOI: <https://doi.org/10.47772/IJRISS.2026.100900104>

Received: 13 August 2026; Accepted: 18 August 2026; Published: 01 October 2026

ABSTRACT

AI is of increasing significance in the food service industry, reshaping the way restaurant operators serve customers, enhancing customer experience, and managing operations. A lot of restaurants are increasing their use of AI-enabled technologies, such as intelligent ordering systems, chatbots, personalized food recommendations, self-service technologies, service robots, and AI-powered mobile applications. While these technologies can increase operational convenience and efficiency, customer experience is more complicated. Consumers may enjoy speed, convenience, and individuality; privacy, trust, loss of human interaction, and even AI service glitches are also concerns. This concept paper attempts to fill this gap by suggesting a conceptual framework from the Stimulus-Organism-Response (S-O-R) approach for examining the nexus between AI-powered restaurant services and customer experience, which will eventually lead into customer satisfaction and loyalty.

For this approach, external stimuli, AI-enabled service attributes like the prompt responses from the chatbots and the efficiency of the robotic servers; are formulated, whereas emotional and insightful judgments were made through their experience with which to their experience on two consequences as listed above. Trust in AI could act as a moderating factor. The concept offers insight into rising literature on AI and food service through the fusion of technological and experiential perspectives. It also offers realistic implications for restaurant staff aiming to execute AI without compromising customer-centricity and service quality.

Keywords: Artificial intelligence, customer experience, restaurants, food service industry, customer satisfaction, customer loyalty, trust in AI, S-O-R framework

INTRODUCTION

Digital technology integrated into the food and restaurant's services has been spreading rapidly. One of technology is of emerging is the Artificial Intelligence AI, so its usage has been becoming increasingly popular as it aims at fulfilling tasks humans normally do by themselves (prediction, recommendation, decision making, language processing, personalized communication and so on). Hence there is more variety in its integration in foodservice context, for example it includes use of chatbots, the digital ordering system, intelligent food menu recommendations, kiosks for self-service, mobile application, serving robots and the automation of his and processes for servicing customers.

During the traditional restaurant service encounter, customers only interact with employees to make some special requests to order food, for example. Nonetheless, with the time passing by at present, they do interact also with AI in first steps the steps of restaurant during food service.

Of course, AI can improve operation efficiency; also, can lead to convenience for the customer. With that, recent past research on AI features showed it could have impact on the service output with affect the cognitive, effective and relational mechanisms (Li, M., (2020), Sun, X., Hua, MM., & Qiu, H.).

Nevertheless, adoption AI will not make it positive customer-experience automatically as consumers do not only have advantages of AI as improved, faster and better food and personalized recommendation, but can have feelings like fear and worry due to doubts about reliability, possibility if losing its privacy, if losing possibility of human to communicate and with it fear of possible technical failures will occur in system (Hua et al. 2025).

Five key customer-experience dimensions relating to AI-enabled food-ordering apps had recently identified which include as well instrumental usability with personalization value to it as affective engagement along data trust with procedural fairness and the social co-experience (Gimenez et al. 2025). Therefore, it may be understood as the link between AI-enabled restaurant services and customer-experience is of relevant to businesses operating food service outlets (Xue et al. 2023).

Problem Statement

With rapid growth of implementation of AI within restaurant services, it creates new opportunities in terms of efficiency of operation and customer convenience of business. Nevertheless, there are vital theoretical, important questions that arise as to what is effect of AI-enabled services experience on clients. Usually, past research on has explored acceptance of technologies within using frames such as perceived usefulness through use of perceived ease of use. These frames do not explore customers' perception alone of the success than how it affects experiences at AI enabled restaurant because they might provide a perception but do not truly explain experiential part that occurs.

Acceptance of technology together with customer experience is significant. The issue here is how consumers perceive AI-ordered services. A customer, while perceived as an AI-ordered system to be convenience, easy and efficient, may well leave restaurant with dissatisfaction because AI-order system provided wrong recommendation for meal to order, wrong order, not access to humans' support. Therefore, an important question remains what effects usage of technology might will create within service because restaurant experiences frequently involve interpersonal interaction, empathy and personal attention so one needs to explore what happens to all those. While technology itself aims to improve and assist in restaurant operation and with services, how does that benefit and create a satisfactory atmosphere in place.

Concern is the relation with hospitality since it mainly involves and depends on human interaction (Li et al 2023). One can agree that as well customers that order at the AI-controlled restaurant want to be treated politely and well-served. The automation technology could diminish opportunity to make personal connections with customers leaving customer dissatisfied with visit than content. This is mainly when restaurants use AI to exchange humans than complement the human service.

Another rising concern arises - trusting AI-enabled restaurant services with privacy (Li et al 2023). The AI services store collects and use preferences and information in line with costumer's previous shopping choices plus customers' personal characteristics for personalized offers, promotions. Therefore, customers and clients will feel more concerned with privacy, as regards transparency or fairness in algorithms of decision making and even with data security itself and there of if they want to try it out. Trust of whether they will receive the same experience and support influences perceptions customers feel towards artificial intelligence. Past research (Zhang et al) proved how crucial it is to gain acceptance and trust from clients and that restaurant services must provide it and address rising anxiety which is common among modern restaurant guests.

There are also research gaps related to AI research. Most research has in fact been focused on robots, self-service applications and kiosks. The drawback is that all research focus on single parts for it than on all-inclusive effect as a whole package combined. There is also problem of separating individual benefits, so there needs to be more broader studies within AI field itself.

What this paper attempts and addresses is to have a framework on a conceptual level, as one that would offer more of an integrative customer with that a experience framework within AI-enabled serving that merges with customer experience with the trust which will lead to his satisfaction along their loyalty during this stage this article will combine AI-enabled serving the trust that will lead to customer satisfaction along with loyalty.

Research Gap

It is evident from the literature that there are four interconnected research gaps. First, previous studies focus on the adoption of technology instead of customer experience. What customers are willing to do is discussed and elaborated for understanding adoption, not their thoughts on why technology is adopted or the experience when that technology makes their work possible is explained by prior literature.

Second, hospitality related to AI research and food service are technologically fragmented. Mobile robots, mobile apps, kiosks for self-service ordering systems and AI are all researched disjointedly to reach a conclusion about the literature; hence it becomes increasingly difficult to understand the phenomenon of AI in hospitality service encounters by integrating separate insights on specific technology.

Third, the emotional, behavioral, social and cognitive experience has not been adequately integrated to date. The four customer experiences have been separately recognized throughout the years within hospitality but never been brought together in a combined framework for research within the restaurant-enabled AI services.

Fourth, there is a theoretical need for human interaction roles and the role of AI towards building trust within these. Customers may cherish AI for its comfort whilst remaining eager to seek human assistance, should circumstances become difficult, complex or involve emotive matters. To address customer perceptions toward AI determines whether or not it plays the role of beneficial service enhancement or else remains perceived to deliver added uncertainty or risk. All of these research gaps have developed the conceptual framework of current research.

Aim of the Study

To explain how services, by AI empowered restaurants impact on customer experience, this conceptual paper intends to form a combined structured frame. Explaining customer experience further and subsequent implications on client loyalty & satisfaction to AI by trust in context of such roles will further assist the aim.

Research Objectives

The proposed study is designed to and intends to:

To detect significant aspects of AI-enabled service offered to restaurants along with the potential customer experience influence offered thereto; to model customer experience in cognitive/emotional/behavioral & other four-fold aspects; to research into alleged relationship between customer experience (customer loyalty & customer satisfaction); and trust in AI. At final note: to model said relationship all-inclusive framework providing conceptual and practical research in restaurant services that caters food.

LITERATURE REVIEW

Artificial Intelligence in Hospitality and Food Service

One of the most important components for technology-enabled services has been Artificial Intelligence. Now a day; for service and management; hospitality is also employing the said AI not for back-end issues but is being increasingly used for all interaction and other front office work; it is evident therefore that service delivery transforms into smart technologies and human employees divide their performance where possible. The two authors argued above as well as few others claimed such facts. While service robots are deployed for regular and repetitive tasks within restaurants, AI can assist or else play role independently in taking orders directly from guests. AI can enable service delivery alongside assisting in online communication of clients about menu suggestions. Therefore, AI can assist in the time consumption and maintenance within restaurants at the initial ordering whilst also giving people greater convenience over management of their order delivery as well; thus, delivering greater customer control over quality control and maintenance. The above examples make it obvious. The above examples make obvious how such AI-enabled experiences enhance efficiency of service but also make for great customer service and hospitality with less errors possible during order placement, thereby leading

to customers receiving items in shorter waits plus increased satisfaction. It is noticeable then how useful AI is not only a boon operation-wise (through improved services); hence why Huang (2018) & Rus, Wiertz along with other writers have supported and argued about this subject of artificial intelligence; a significant part of AI in the entire customer service area as explained fully that not only do they have the ability of enhancing operating; AI-enabled restaurant services are not only essential features but play an important role as well of the hospitality provided. Thus, AI must be researched alongside important features for the customer service aspect.

The increasing role of AI and different service provider types in current industries have a considerable role for enhancing customer service with AI supported services being essential tool for efficient running like an increased range for food catering etc within such area; the importance for AI in improving operations also comes with it a need to give importance to AI as the essential role from perspective 'customer service related'. The customer experience is a significant aspect to address because AI has been increasingly used within this area over several years to ensure there is little errors in the process and service provided is of higher standard compared previously before implementation (2018); one such example may be faster services provided by the restaurant as a client after order may find himself waiting for longer at another place compared where food served through AI-powered systems can minimize waiting times; thus with this the amount customer interaction will also reduce from staff of 2-star rated restaurant towards clients or any customers there. More is there also mentioned through example from above where mobile apps self-service kiosk to menu options provided directly to clients - this becomes handy not only for placing order without delay nor longer waits but by giving proper details related to the items mentioned which is vital; to the same in customer communication through providing recommendations related thereto or any of such. Thus, one cannot deny importance & benefits AI can deliver and has already for several reasons given how services at two-star rated restaurants are faster, better managed thereby reducing customers from getting disturbed with unwanted queries; through which the standard at these 3 star venues gets drastically enhanced resulting of that customer care also improves drastically compared to situations when they do not use these features - such things are important facts (2025). Given how convenient it has become and how better-quality services are with it that AI should now instead and then regarded as technology for enhancing operational performance or an opportunity; be reviewed carefully so to speak, in context 'a whole customer experience aspect'.

AI-Enabled Restaurant Service Attributes

AI-enabled restaurant services are characterized by five unique service attributes including service efficiency, personalization, convenience, reliability and interactivity. Such functional and experiential attributes of the AI-enabled restaurant environments impact customer experiences towards the service.

Firstly, service efficiency implies AI's attribute of achieving efficient service through speed and consistency. AI-based systems can automate tasks such as taking orders, answering customer queries and payment processing resulting in faster and more convenient service. AI can reduce inconsistency by standardizing responses through rule-based or machine learning approaches ensuring consistency in service output. This is expected to help positive evaluation from the customers.

Secondly, personalization represents tailoring the recommendations and services according to the preferences of individual customers. Based on analysis of previous transactions and consumption preferences, AI can deliver product recommendations that are more meaningful and effective. An increase in relevance perception, value and attention to their particular desires are considered by Shorbaji et al. (2025) to be key elements in customer experiences in apps for AI food order. Hence, customers are expected to respond positively to such experiences.

Next, convenience represents reduction in mental and physical effort to undertake dining tasks through the application of AI. Customers may interact with the AI-based systems to review the menu, customize their order, submit an order, affect payment and follow their delivery. The Technology Acceptance Model proposed by Davis (1989) is helpful to substantiate the significance of perceived usefulness and convenience. In the hospitality segment customers are more likely to acknowledge greater comfort as a boost to service quality and overall experiences.

Fourthly, reliability concerns accuracy, consistency and trust that customers place while interacting with an AI at a cafe or a restaurant. It encompasses aspects of order accuracy, information correctness and recommendations precision. Technical difficulties and anomalies, inaccurate knowledge or system malfunction may result in a negative customer reaction to an AI-based system. Reliability bears additional significance as any technical service of state of art means little without customer assurance and confidence.

Finally, interactivity is about how an AI system is capable and allows customers to speak and exchange facts while dealing with it. Customer-facing tools, such as chatbots, voice assistants, humanoid robotics, smart menus etc., are gaining prevalence. Huang et al. (2021) showed that interaction between people and robots can have cognitive, emotional and behavioral components and consequently create experience-related results.

Customer Experience

Customer experience is the entire response of a customer towards interactions with the service or company, including the environment in which the service is exchanged. Customers come in an contact with different brands where feelings are sensed, the customers behave and gather understanding, which is what they consider customer experience (Lemon and Verhoef (2016), Brakus et al (2009)). There are sensory, affective and behavioral and the intellectual dimensions of the customer encounters and the customer experiences that occur in an AI restaurant are similar; for example, cognitive (when AI is useful, relevant and makes processes smarter) (Lemon and Verhoef). Emotion when customers derive happiness or angst from interaction with AI. Behavior, as how many times the customers are ready or capable of interacting with machines and whether the relations between and among the guests get improved or compromised due to AI intervention? Experience is complex in the sense that improvement of AI on one dimension may be an impediment to another. Like automated kiosks, it may improve comfort and cognitive judgements on the other hand reduce human interaction. Similarly recommended systems may yield some useful things or create privacy concern. Therefore, there would be overall customer perceptions that customers made from the fusion of technology with social experience.

Trust in AI

Trust is one of the critical contextual factors in AI-enabled services that affect customers' responses to AI technology. Customers tend to respond positively to AI when they see it is reliable, secure, accurate and transparent. Higher trust is more pronounced, specifically, where an AI system gathers personal information or makes recommendations based on customer data. Indeed, customers in their studies of restaurant service robot found that trusting beliefs influenced usefulness, ease of use and satisfaction and that, by contrast, perceived risk threatened customers' response to AI (Seo and Lee (2021) 2021). Furthermore, data trust and procedural fairness are also the reported determinants of AI enabled food-ordering experiences in (Shortjaji et al (2025). 2023). That is why AI trust, in current study, is shown as a contextual moderator than just another independent variable. It is assumed that customers having higher trust in AI are more receptive towards AI-enabled services and thus have more positive experiences than customers having low trust tend to see it as risky or intrusive.

Customer Satisfaction

Customer satisfaction refers to the customers' evaluation of the restaurant experience within the scope of their perception and expectations. When technology brings them efficient, convenient, personalized and reliable services as well as an appropriate level of human support, satisfaction is achieved within the AI-enabled restaurant environments. A positive customer experience would result in higher satisfaction and by contrast inaccurate recommendations, technical errors, limited human help or privacy concerns may result in an unsatisfactory experience, hence decreasing customer satisfaction. The relationship between technology enabled service experience and customer satisfaction is supported through research conducted on service robots and self-service technologies.

Customer Loyalty

Customer loyalty describes a customer's intention of relationship maintenance with a restaurant including recommendations to others, revisiting and repurchase from that restaurant. It is important in competitive

restaurant environments to have loyal customers because repeat customers help to contribute towards increased business performance along with positive word-of-mouth.

Customer loyalty is influenced by positive experiences by enriching the emotional and behavioral connections which strengthens loyalty as intention to revisit and recommend a restaurant to others increases. Satisfied customers are generally expected to maintain their relationship with the service provider too. Therefore, the framework reflects that customer experience influences loyalty, as well as satisfaction, additionally the customer satisfaction is also predicted to affect the loyalty of a customer.

Theoretical Foundation

Technology Acceptance Model

The Stimulus-Organism-Response (S-O-R) approach proposed by Mehrabian and Russell (1974) is based fundamentally upon the conceptualization presented in this paper. According to the S-O-R approach external environmental stimuli influences mental and emotional position of an individual thus resulting in the generation of behavioral responses. When applied in AI enabled restaurant services the stimuli would primarily be efficient AI attributes, personalization as well as convenience reliability and interactivity. Similarly, customer experience and trust fall among the most important aspects for an Organism whereas responses are portrayed by customer satisfaction and customer loyalty. (Liu, &Zhu, 2021) suggests that S-O-R is most applicable while applying the proposed conceptualization of this study since loyalty does not necessarily directly come into effect due to AI. In fact for an individual loyalty tends to develop subsequent to interpretation, assessment, expression of both emotional and mental reaction and valuation of the AI enabled services. This seems also similar with the idea provided in the given paper.

Stimulus-Organism-Response Framework

The Stimulus-Organism-Response (S-O-R) framework by Mehrabian and Russell (1974) is the theoretical basis of this conceptual essay. The S-O-R framework asserts that external environmental stimuli have an impact on an organism's internal state (organism), resulting in behavioral responses. For instance, in the case of restaurants with AI-enabled services, efficiency, personalization, convenience, reliability and interactivity constitute stimuli. Customer experience and trust are important features of the customer's organism and customer satisfaction and loyalty constitute the responses.

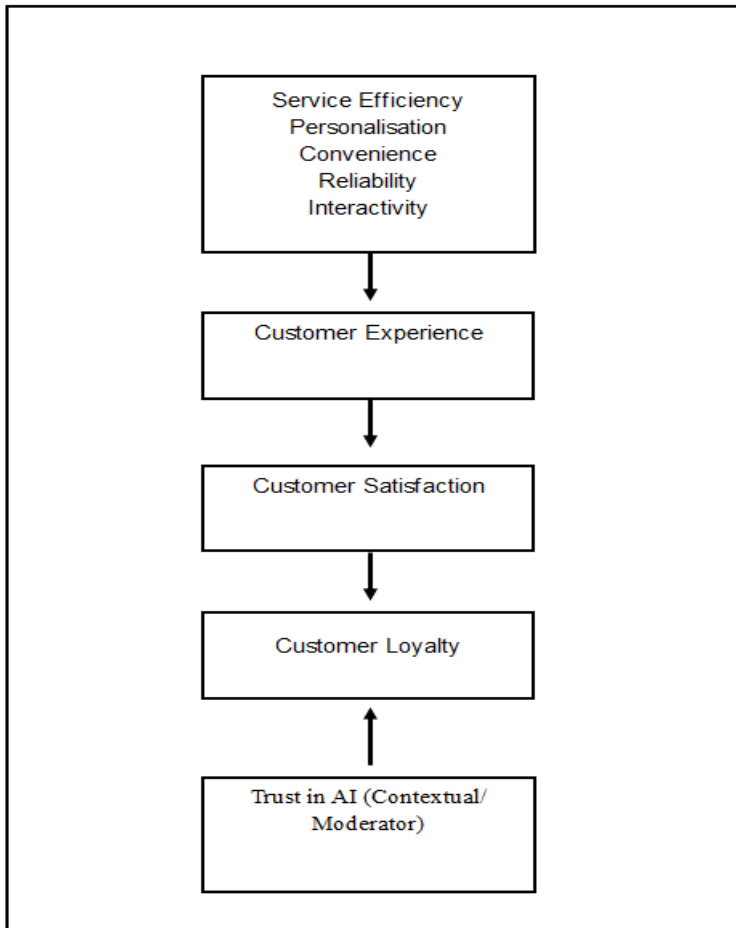
The S-O-R perspective seems suitable since it recognizes that AI might not necessarily influence loyalty directly. Customers interpret and evaluate services that are enabled by AI, develop appropriate emotional and mental responses and then form evaluations such as satisfaction and behavioral intentions among other loyalty. This is consistent with the proposed framework in the original document.

Conceptual Framework

The proposed conceptual framework integrates the five dimensions of AI-enabled restaurant services—efficiency, personalization, convenience, reliability and interactivity—as the primary stimuli. These characteristics are expected to influence customers' overall experience, which incorporates cognitive, emotional, behavioral and social responses. Trust in AI is positioned as a contextual moderator because customers' confidence in the technology may influence how they interpret and respond to AI-enabled services.

Customer experience is subsequently expected to influence both customer satisfaction and customer loyalty, while customer satisfaction is expected to contribute directly to customer loyalty.

AI ENABLED RESTAURANT SERVICES



METHODOLOGY

Given the conceptual nature of the essay no data is collected, though the framework can be empirically tested with quantitative study design. In this regard, a cross-sectional study can be conducted with adult restaurant customers having the experience of interaction with at least one AI-enabled restaurant service. Purposive sampling is relevant here since all customers might be equipped with the experience of the service and this is proposed in the original paper. A structured questionnaire could be applied to capture respondent perceptions about AI service efficiency, personalization, convenience, reliability and interactivity for the next stage measure: cognitive, emotional and behavioral and social experiences. Trust in AI, customer satisfaction and customer loyalty may, then, be measured using standard scales specifically adapted as instruments from past studies.

A five-point Likert scale may be used as proposed in the original paper and the study proposes for a sample of about 300-400 respondents. For future empirical validation, PLS-SEM would be appropriate, because the relationship and moderating effect of trust in AI may be investigated, especially when the research primarily focuses on prediction and several latent constructs are used.

Expected Contribution

From a conceptual stance, this paper merges AI-enabled restaurant services with customer experience, satisfaction and loyalty in one theory led framework. Its proposed framework expands upon current ideas of researching AI in a way other than just acceptance because it states that AI must be viewed relative to the quality of customer experience, not as a device or technology with a sole task of completing its job. From the viewpoint of management, the conceptual framework can assist restaurant operators by specifying the characteristics of AI most likely to deliver positive customer experiences and helping them maintain balance between automation and human labor is just as critical. At industrial level it facilitates development of human and centered AI implementation strategies merging effectiveness of AI with that of the relational and social characteristics typically related to hospitality.

CONCLUSION

Artificial intelligence is transforming the restaurant and food service industry by changing how customers interact with restaurants and how services are delivered. AI-enabled ordering systems, digital menus, recommendation technologies, chatbots, self-service kiosks, mobile applications and service robots can provide substantial benefits in terms of efficiency, convenience and personalization. However, the successful implementation of AI depends not only on technological capability but also on how customers perceive and experience these technologies.

This conceptual paper proposes an integrated framework based on the Stimulus–Organism–Response perspective to explain the relationship between AI-enabled restaurant services, customer experience, customer satisfaction and customer loyalty. The framework conceptualizes efficiency, personalization, convenience, reliability and interactivity as key AI service attributes that influence customer experience. Customer experience subsequently influences satisfaction and loyalty, while trust in AI is proposed as a contextual moderator.

The framework addresses an important gap in existing literature by moving beyond the conventional focus on technology adoption towards a broader understanding of customer experience. It also recognizes that restaurant hospitality remains inherently social and that technology should not necessarily replace human interaction. Instead, AI can be strategically implemented to complement employees, improve service delivery and provide customers with greater convenience while preserving the relational elements of hospitality.

Future empirical research should test the proposed relationships across different restaurant formats and customer segments. Such research could provide valuable evidence regarding when AI enhances customer experience and when human interaction remains essential. Ultimately, the successful adoption of AI in restaurants should be measured not simply by how much technology is implemented, but by whether that technology creates more efficient, trustworthy, personalized and meaningful customer experiences.

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