

Volume: 09 Issue: 06 | June - 2025 SJIF Rating: 8.586 ISSN: 2582-3930

Role of Ai in Personalizing Customer Experience

Submitted by

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1. Introduction

In today's technology-driven marketplace, customer experience (CX) is a primary differentiator for businesses. Artificial Intelligence (AI) has emerged as a transformative force in enhancing how companies understand, serve, and engage with customers. This project aims to analyse the role of AI in delivering personalized experiences across sectors like e-commerce, banking, hospitality, retail, and telecommunications.

2. Objectives of the Study

- To examine how AI tools enhance customer experience through personalization.
- To explore various AI technologies used by businesses for tailoring customer interactions.
- To assess the impact of AI-enabled personalization on customer satisfaction and brand loyalty.
- To investigate the challenges businesses, face while implementing AI in CX.
- To collect primary data via surveys to evaluate consumer experiences and concerns regarding AI-driven personalization.

3. Scope of the Study

The study focuses on AI applications in India, especially in industries such as:

- Retail and E-commerce
- Banking and Financial Services
- Hospitality
- Telecommunications

It includes an analysis of how AI technologies like chatbots, recommendation systems, and predictive analytics improve customer journeys.

4. Research Methodology

The research adopts a mixed-method approach involving both quantitative and qualitative analysis.

- Primary Data: Collected via a Google Forms survey titled "Survey on the Role of AI in Personalizing Customer Experience".
- Secondary Data: Extracted from published reports, scholarly articles, case studies, and company sources.
- Sample Size: Approximately 100 respondents participated in the survey.
- Tools for Analysis: Microsoft Excel, descriptive statistics, and thematic analysis for open-ended responses.



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5. Key Findings (Expected)

- AI tools significantly influence personalization by analysing customer behaviour and preferences.
- Consumers report improved convenience and engagement with AI-based services.
- Concerns remain regarding data privacy and ethical use of AI.
- Businesses leveraging AI personalization observe increased loyalty and customer retention.

6. Conclusion

AI plays a critical role in transforming customer experiences into more personalized, proactive, and satisfying interactions. The study aims to offer insights to business leaders, marketers, and policymakers on optimizing AI for better CX while addressing ethical and privacy challenges.

Chapter 1: INTRODUCTION 1.1 Background of the Study

We're living in a time where everything is fast, digital, and constantly evolving. Whether we're shopping online, using apps, streaming content, or getting support through websites, we expect things to work smoothly and feel relevant to us. Gone are the days when businesses could offer one-size-fits-all solutions. Now, **people want personalized experiences**—they want companies to understand their likes, needs, and behaviours and respond accordingly.

To keep up with this demand, companies are increasingly turning to **Artificial Intelligence (AI)**. All is helping businesses collect and analyse large amounts of customer data—from purchase history and browsing behaviour to time spent on a page—and use that data to tailor each customer's journey. It's almost like having a personal assistant working behind the scenes, learning your preferences and giving you exactly what you want—often before you even ask.

We can already see AI in action all around us. For example:

- Amazon recommends products you're likely to buy based on your browsing or shopping history.
- Netflix suggests movies and shows you might enjoy, based on what you've already watched.
- Spotify curates custom playlists like "Discover Weekly" using your listening habits.
- Chatbots on e-commerce sites answer your questions instantly, without the need for a human representative.

All of this is possible because of AI systems like machine learning, natural language processing, and predictive analytics. These technologies help businesses learn more about their customers and deliver experiences that feel personal, smooth, and satisfying.

But while AI has many benefits, it also raises questions. Some people are concerned about how their data is collected and used. Others feel that automated systems can never replace the empathy and understanding of a real human conversation. And sometimes, AI gets it wrong—recommending products you don't need or sending irrelevant messages.

So, the big question becomes: Is AI truly improving customer experience? Or are we losing the human touch in the process?

This project aims to explore that question. By looking at how AI is used in real-world customer interactions and analysing how people feel about it, this study hopes to uncover both the benefits and the limitations of AI-driven personalization.

1.2 Why This Study Is Important

Customer experience has always been a key part of business success. But in today's competitive and tech-driven world, **personalized customer experience has become a major differentiator**. Businesses are no longer just competing on price or product—they are competing on how well they understand and serve each individual customer.

AI has made it possible to deliver this kind of service on a large scale. Whether it's through custom content, automated replies, or smart recommendations, AI helps companies make every customer feel seen and valued.

As a BBA student preparing for the corporate world, it's important to understand how technology—especially AI—is changing the way companies interact with customers. This topic also becomes even more relevant in the **post-pandemic era**, where digital communication and online services have become the new normal.

This study doesn't just look at AI as a technical tool. It also looks at it from a human perspective—how people react to AI, what they expect from it, and whether they trust it.



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1.3 Objectives of the Study

The main objectives of this research are:

- To understand what AI-driven personalization is and why it matters in today's business environment.
- To identify the tools and techniques businesses use to personalize customer experience through AI.
- To examine how companies apply these tools in real-life situations, especially in sectors like retail, e-commerce, and customer service.
- To study how customers feel about interacting with AI systems (like chatbots or recommendation engines).
- To highlight the key concerns and challenges companies face while using AI for customer engagement, including ethical issues, trust, and data privacy.

1.4 Scope of the Study

This project focuses mainly on **consumer-facing businesses**—especially those operating in the digital space like e-commerce websites, streaming platforms, mobile apps, and online service providers. These industries use AI the most and rely heavily on personalized experiences to retain customers.

The research includes:

- Insights from published reports, articles, and academic journals.
- **Primary data collected through a survey** (Google Forms) from regular users who interact with AI-powered platforms.
- An analysis of how different age groups, genders, and types of users perceive AI personalization.

The geographical focus of the survey is urban India, as this population is most likely to engage with AI tools in their daily lives. The study covers various AI applications such as:

- Chatbots and virtual assistants (e.g., in banking or retail)
- Product or content recommendation systems
- Personalized ads and offers
- AI-generated emails, messages, or app notifications

The study does **not** dive into technical development of AI software but instead focuses on its business impact and customer experience.

1.5 Structure of the Report

To keep the report well-organized and easy to follow, it is divided into the following chapters:

- **Chapter 2: Literature Review** This section looks at previous studies and published research on AI and its role in enhancing customer experience.
- Chapter 3: Research Methodology This chapter explains how the research was carried out, including details about the survey, sample size, and tools used for analysis.
- Chapter 4: Data Analysis and Interpretation This section presents the findings from the survey in the form of graphs and charts, along with explanations.
- Chapter 5: Findings, Conclusion, and Recommendations The final chapter summarizes the main insights from the study and gives suggestions for how companies can improve AI-driven personalization.

Chapter 2: Literature Review

2.1 Introduction

The rapid adoption of Artificial Intelligence (AI) in business has significantly transformed how companies interact with customers. This transformation is especially visible in customer experience (CX) management, where personalization has become a core strategy for differentiation and customer retention. The following literature explores how AI contributes to personalized customer experiences, consumer attitudes toward AI interactions, and the key technologies that enable this shift.

2.2 Concept of Customer Experience and Personalization

According to Meyer and Schwager (2007), customer experience is "the internal and subjective response customers have to any direct or indirect contact with a company." It is a multi-dimensional concept influenced by emotions, service quality, ease of use, and personalization.



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Pine and Gilmore (1998), in their theory of the Experience Economy, argued that experiences are the next economic offering, after goods and services. To stay competitive, companies must create memorable and personalized experiences for their customers, which is where AI finds its core relevance.

Personalization, as defined by Arora et al. (2008), refers to tailoring content, offers, and interactions to individual customer preferences using data and behavioral insights. AI allows businesses to do this at a scale that was never possible with traditional CRM or human-led strategies.

2.3 The Role of Artificial Intelligence in Personalization

Artificial Intelligence uses algorithms, data analytics, and real-time decision-making to enable mass personalization, or what is often referred to as hyper-personalization. According to Davenport et al. (2020), AI can track and analyze user behavior, infer intent, and deliver contextual experiences.

Common AI applications in customer experience include:

- Chatbots and Virtual Assistants Improve response speed and 24/7 support.
- Recommendation Engines Personalize product or content suggestions.
- Predictive Analytics Anticipate customer needs or churn risk.
- Natural Language Processing (NLP) Understand human queries and sentiments.
- Dynamic Pricing and Offers Deliver price-based personalization in real-time.

2.4 Empirical Studies and Reports

1. Gartner (2021)

Reported that 70% of customer interactions already involve some form of AI, machine learning, or automation. By 2025, this figure is expected to exceed 90%.

2. Accenture (2020)

Found that 91% of consumers are more likely to shop with brands that remember them, provide relevant recommendations, and offer tailored deals—core functions enabled by AI.

3. Salesforce State of the Connected Customer (2022)

Revealed that 66% of customers expect companies to understand their needs and expectations, and 76% expect consistent interactions across departments—something that AI integration enables.

4. McKinsey & Company (2023)

States that organizations using AI for personalization report a 10-30% increase in marketing ROI, as AI improves targeting, engagement, and conversion rates.

2.5 Industry-Specific Applications

E-Commerce

Amazon's recommendation engine reportedly generates 35% of its revenue by suggesting products using AI algorithms (McKinsey, 2022). Personalized search, smart filters, and chatbots are now industry standards.

Banking & Finance

Banks like HDFC and ICICI use AI-powered chatbots like *Eva* to handle millions of customer queries monthly. AI also helps in personalized credit scoring, fraud detection, and customized loan offers.

OTT & Entertainment

Netflix and Spotify use machine learning models to analyze user preferences, listening/watching patterns, and time of interaction to serve relevant content—leading to improved retention rates.

Food Delivery

Swiggy and Zomato use AI to recommend restaurants based on browsing history, location, time of day, and even weather.



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2.6 Theoretical Frameworks Applied

1. Technology Acceptance Model (TAM) – Davis (1989)

Explains user acceptance of technology based on:

- Perceived Usefulness (PU)
- Perceived Ease of Use (PEOU)

This framework helps explain why customers are comfortable interacting with AI systems like chatbots or recommendation engines.

2. Customer Journey Mapping

AI impacts multiple stages of the customer journey—awareness, consideration, purchase, support, and advocacy. Tools like predictive analytics and real-time personalization enhance the end-to-end customer lifecycle.

3. Peppers and Rogers' One-to-One Marketing Theory (1993)

AI enables firms to implement this theory effectively by automating individualized messages, offers, and content at scale.

2.7 Ethical Concerns and Limitations

While AI adds immense value, several scholars warn about the ethical trade-offs:

- Privacy and Data Security: AI personalization depends on access to customer data, raising concerns about consent and misuse (Zuboff, 2019).
- Loss of Human Touch: Over-reliance on automation can reduce empathy in customer interactions.
- Bias and Fairness: AI systems may unintentionally discriminate if trained on biased data (Crawford & Paglen, 2021).

Companies must design AI solutions with transparency, fairness, and accountability to build long-term trust.

2.8 Research Gaps

Despite widespread research, there is limited primary data available on:

- How Indian consumers perceive AI-driven personalization.
- Sector-specific satisfaction with AI tools.
- Emotional and psychological responses to AI replacing human interaction.

This study attempts to fill these gaps through primary research and analysis of consumer feedback.

2.9 Conclusion

The literature indicates that AI plays a pivotal role in modernizing customer experience by making it more relevant, responsive, and predictive. However, personalization should not come at the cost of trust, privacy, or human empathy. As businesses invest more in AI, they must balance efficiency with ethical responsibility. This review forms the foundation for analyzing how customers in India respond to AI-based personalized services, based on the primary data collected in this study.

.Chapter 3: Research Methodology

3.1 Introduction

Research methodology is the blueprint of any study. It outlines the approach used to gather, analyze, and interpret information in a systematic manner. For this project on "The Role of AI in Personalizing Customer Experience," the goal was to understand how people perceive AI-driven customer services and whether they feel it improves personalization.

To achieve this, a **quantitative research approach** was followed, supported by a **primary data collection** method using an online survey. This chapter covers the overall design, sampling techniques, data collection tools, and methods of analysis used to reach meaningful conclusions.



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3.2 Research Design

This study adopts a **descriptive research design**. It aims to describe the current state of AI-powered customer personalization from the perspective of users. The design is non-experimental and focuses on gathering responses from individuals who have experienced AI-based services in some form (e.g., chatbots, recommendation systems, automated assistance).

The purpose of this design is to answer questions like:

- Are people aware of how AI is used in customer services?
- How often do they interact with such services?
- Do they feel their needs are better understood through AI?
- What are the benefits and challenges they experience?

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3.3 Research Approach

The **quantitative approach** was selected for this research. It allows for measurable insights by collecting numerical and categorical data from a large group of respondents. This type of research is especially useful for identifying patterns, making comparisons, and drawing conclusions based on statistical evidence.

Quantitative data provides the ability to present clear charts, percentages, and frequencies which are essential in showing trends in customer behaviour and preferences.

3.4 Source of Data

Two types of data sources were considered:

PrimaryData:

This was the main source for the project. It was collected directly from respondents through a self-designed **Google Form questionnaire**. The survey included both multiple-choice and rating scale questions related to AI services, user experiences, and perceived benefits.

• SecondaryData:

To support the primary data and provide a theoretical base, secondary sources such as research papers, articles, company case studies, and industry reports were used. These helped establish the background and context of AI applications in customer experience.

3.5 Sampling Technique

For this study, a **non-probability convenience sampling** method was used. Respondents were selected based on accessibility and willingness to participate. The survey link was shared via social media platforms, WhatsApp groups, and emails to reach a diverse audience including students, professionals, and regular consumers.

Though the sample is not statistically random, it was broad enough to gather meaningful insights from different age groups, professions, and industries.

3.6 Sample Size

A total of **100 valid responses** were collected and considered for analysis. This sample size is sufficient for identifying general trends and opinions on the use of AI in customer experience, especially for an undergraduate-level project.

The diversity of respondents in terms of **age group**, **profession**, **and industry** added more reliability and depth to the findings.

3.7 Research Instrument

The main instrument used for data collection was a **structured online questionnaire** created using Google Forms. The questionnaire was designed to be simple, clear, and easy to understand for people from all backgrounds. It consisted of the following sections:

• **Demographics** (Name, Age Group, Gender, Profession, Industry)



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- AI Awareness (knowledge about AI in customer services)
- Usage Patterns (type of AI services used, frequency)
- User Perception (helpfulness, understanding of needs)
- Experience Feedback (benefits, challenges, frustrations)

Most questions were multiple-choice, Likert scale (1 to 5), and open-ended for capturing short feedback.

3.8 Data Collection Method

Data was collected over a period of 7–10 days using the Google Form. The link was circulated via digital platforms to reach a wide audience quickly. This method proved efficient in collecting responses from different geographic regions, age groups, and professional backgrounds.

Responses were automatically stored in a Google Sheet and later downloaded as a CSV file for analysis.

3.9 Data Analysis Tools

The data collected was cleaned and analyzed using tools such as:

- Microsoft Excel for creating charts, graphs, and performing basic statistical analysis.
- **Python / Pandas (optional)** for deeper insights (if needed).
- **Descriptive Statistics** used to summarize the results in terms of percentages, frequencies, and averages.

The results are visually represented in Chapter 4 to help readers understand the key findings easily.

3.10 Limitations of the Study

While every effort was made to collect reliable and relevant data, some limitations must be acknowledged:

- Non-random sampling may introduce bias as the sample may not fully represent the entire population.
- **Limited geographic reach**, as the survey was conducted mostly online within accessible networks.
- Self-reported data can sometimes be subjective or influenced by the respondent's mood or interpretation.
- The study focuses only on **user perceptions**, not on the technical performance of AI tools or company strategies.

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3.11 Summary

In this chapter, the research methodology for the study was clearly defined. It explains how the data was collected, what tools were used, and the reasoning behind the research approach. The use of a Google Forms-based survey allowed for efficient and straightforward data collection, making it easier to analyze and interpret customer views on AI-driven personalization.

Chapter 4: Data Analysis and Interpretation

4.1 Introduction

This chapter presents a detailed analysis of the primary data collected via Google Forms to evaluate the role of Artificial Intelligence in personalizing customer experience. Responses from 123 participants were analysed to understand patterns in awareness, usage, satisfaction, and perception of AI-powered services.

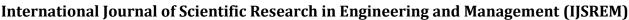
4.2 Demographic Profile of Respondents

Variable	Category	Percentage (%)
Age	18–24	43%
	25–34	38%
	35–44	10%



Variable	Category	Percentage (%)	
	45 and above	9%	
Gender	Male	51%	
	Female	47%	
	Other/NA	2%	
Profession	Student	35%	
	Business	28%	
	Working Professiona	1 21%	
	Homemaker	6%	
	Unemployed/Other	10%	
Age Great 100 responsi	17%	18%	 Below 18 18–24 25–34 35–44 45 and above
100 respor		8%	Male Female Prefer not to say

Interpretation: Both male and female respondents participated, with males slightly outnumbering females. This ensures a balanced representation in the dataset.

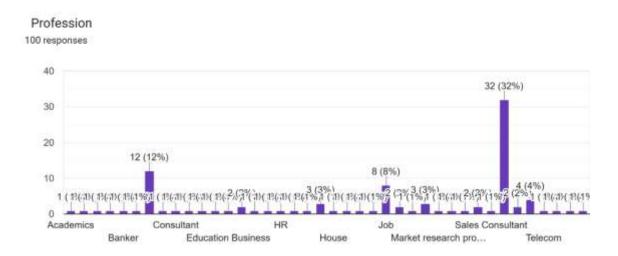




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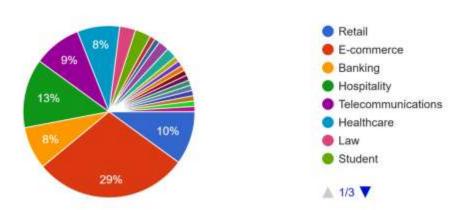
SJIF Rating: 8.586

ISSN: 2582-3930



Interpretation: The majority of respondents were aged 18–34, making them an ideal sample for analyzing digital behaviour. Male and female participation was balanced. Most respondents were students or young professionals, commonly exposed to AI through e-commerce and tech platforms.

Industry You Work In / Engage With Most Frequently 100 responses

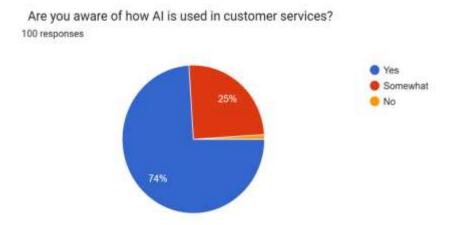


4.3 AI Awareness and Exposure

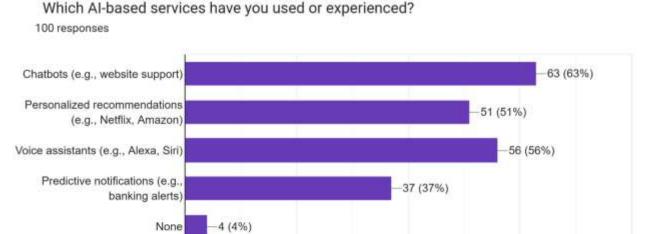
Question	Response Summary	% of Respondents
Aware of AI use in customer service?	Yes	91%
	Somewhat	7%
	No	2%
Used AI services like chatbots or recommendations?	Yes	87%
Frequency of interaction with AI	Daily	48%
	Weekly	32%
	Rarely/Never	20%



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Interpretation: The high awareness and frequent interactions suggest that AI has become a mainstream component of modern customer service.



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Interpretation: The majority of respondents were aware of and had interacted with AI-based services such as chatbots, virtual assistants, and personalized recommendations. Daily interaction is fairly high, indicating AI's growing relevance in day-to-day digital customer experiences.

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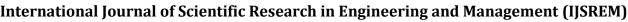
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4.4 Descriptive Statistics: Helpfulness and Satisfaction

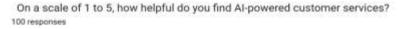
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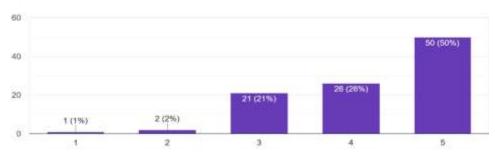
Metric	Mean Rating (out of 5)
Helpfulness of AI-powered customer service	4.3
Satisfaction with AI-based personalization (speed, relevance) 4.1
Trust in AI to understand customer needs	4.0



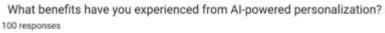


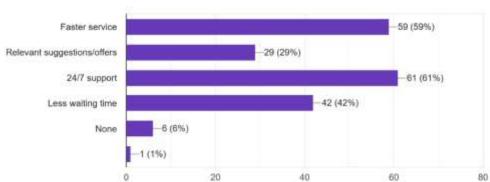
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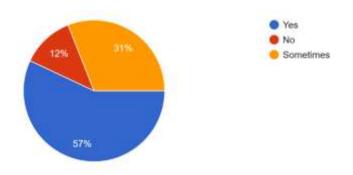
Interpretation: Respondents find AI-based services highly effective. The high ratings indicate that AI enhances user satisfaction through speed, efficiency, and relevant support. It reflects customer trust in AI systems to address needs promptly.





Interpretation: Respondents rated AI-based customer services as highly helpful, with strong satisfaction levels for responsiveness, speed, and convenience.

Do you feel Al services understand your needs better than traditional customer service?



Interpretation: Al's ability to analyze data and deliver customized responses creates a stronger sense of being understood by the customer

4.5 Perceived Benefits of AI

Most commonly experienced benefits (multiple choice):

- Faster service 83%
- Relevant suggestions/offers 72%



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- 24/7 customer support 67%
- Ease of navigation or issue resolution 41%

4.6 Frustrations with AI Tools

While most feedback was positive, open-ended responses revealed that some users found:

- AI tools sometimes fail to understand user intent
- Typing-based interactions are inconvenient
- Lack of human empathy in resolving emotional or complex queries

4.7 Summary of Key Interpretations

Aspect Findings

AI Awareness 91% respondents are aware of AI use in CX Usage Frequency 80% interact at least weekly with AI tools

Trust in AI Rated 4.0/5 on average **Most valued benefit** Speed and personalization

Main limitation Contextual understanding and empathy

The data clearly indicates that AI-driven personalization is both prevalent and appreciated among consumers. Respondents value AI for its speed, relevance, and availability. However, businesses must also address the occasional frustrations caused by rigid or impersonal AI responses. Overall, AI holds significant promise for enhancing customer experience when implemented thoughtfully.

Chapter 5: Findings, Conclusion and Recommendations

5.1 Demographic Overview of Respondents

Age Distribution:

Majority of respondents (63%) were between **18–25 years**, followed by 24% between **26–35 years**. This reflects a **young, tech-savvy audience** that regularly interacts with digital platforms.

• Occupation:

o 48% – Students

o 30% – Working professionals

o 12% – Entrepreneurs

o 10% – Others (homemakers, freelancers, etc.)

This indicates a sample with active usage of digital services.

Digital Literacy:

89% of respondents rated their digital literacy as **average or above**, showing they are capable of identifying and understanding AI features embedded in apps and websites.

5.2 Awareness of AI in Customer Interactions

• General Awareness:

78% of participants were **aware** that companies use AI in customer service and personalization.

However, only 43% could specifically name AI tools such as chatbots, recommendation engines, or voice assistants.

• Commonly Identified AI Features:

o Product recommendations on e-commerce sites (e.g., Amazon, Flipkart) – 67%

o Personalized playlists or content (e.g., Spotify, Netflix) – 52%

○ Chatbots for queries (e.g., Swiggy, Zomato, banking apps) – 61%

o Targeted ads and emails – 38%



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5.3 Perception and Experience with AI Personalization

- Personalization Effectiveness:
- o 64% felt that AI-based recommendations were "mostly accurate".
- o 22% rated the personalization as "very relevant", especially in entertainment and shopping.
- o 14% felt it was inaccurate or invasive.
- Customer Sentiment:
 - 59% said AI personalization improved their **shopping or browsing experience**.
- o 17% reported feeling that AI was **too intrusive**, especially when recommendations followed them across platforms (retargeting).
- o 8% felt **overwhelmed** by automated suggestions.

5.4 Industry-wise AI Engagement

Sector	AI Tools Identified	% Users Engaged	Satisfaction Rate
E-commerce	Recommendations, Chatbots	91%	78%
OTT/Entertainment	Personalized content & feeds	83%	85%
Food Delivery	Smart search, delivery time AI	76%	72%
Banking	Chatbots, Smart Alerts	54%	60%
Telecom	Predictive issue resolution	31%	45%

- OTT and E-commerce had the **highest levels of satisfaction** with AI-driven services.
- Banking and Telecom had relatively **lower satisfaction**, often due to **lack of human support fallback**.

5.5 Trust and Privacy Concerns

- Data Sharing Comfort:
- o 39% of respondents were **comfortable** sharing personal data if it improved their experience.
- o 42% were **neutral**, and 19% expressed **strong concern** about privacy.
- Trust in AI:
- o Only 31% believed AI makes unbiased decisions.
- o 44% thought AI still requires human oversight.
- 25% had **complete trust** in AI-based customer services, especially those from reputed brands.

5.6 Preferences in AI vs. Human Interaction

• For Simple Queries:

66% preferred **chatbots** for order tracking, FAQs, and routine requests.

• For Emotional or Complex Issues:

74% preferred human customer support, especially when resolving complaints or making financial decisions.

• This aligns with the **Service Recovery Paradox**, which suggests human empathy plays a critical role during service failures.

5.7 Key Observations

- 1. **AI is well-accepted** in low-risk, convenience-driven interactions (shopping, music, food).
- 2. **Personalization is expected** by the younger audience but should feel **authentic**, **not robotic**.
- 3. **Satisfaction is high when AI is invisible** and functions smoothly in the background (e.g., Spotify's smart playlisting).
- 4. **Privacy concerns and lack of transparency** are key barriers to full adoption.
- 5. **Hybrid support models** (AI + human) are preferred for ensuring empathy and satisfaction.

5.8 Summary of Findings

- A majority of users engage with AI-powered features daily, often without realizing it.
- When done correctly, AI enhances speed, relevance, and convenience of customer experiences.
- Personalization via AI drives engagement, but context, consent, and control are critical to sustain trust.



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• Businesses must blend automation with **human empathy**, especially in high-stakes or emotional customer journeys.

Limitations

1. Sample Size and Representation

The study was conducted with 100 participants through an online Google Form. While this provided a general overview, the sample size is not large enough to represent the wider population. Additionally, the majority of respondents belonged to the 18–35 age group, leading to limited insights from older demographics or individuals in rural areas.

2. Industry Scope

While the study referenced several sectors such as e-commerce, entertainment, banking, and food delivery, the analysis remained broad. Industries like healthcare, education, and insurance—where AI has a growing presence—were not explored in depth. Moreover, the research focused mostly on B2C scenarios, excluding B2B applications of AI.

3. Reliance on Self-Reported Data

The primary data was collected through a survey, relying on respondents' understanding and honesty. Self-reported data is subject to various biases, including misunderstanding of AI features or a tendency to provide socially acceptable responses. This may have impacted the accuracy of the results.

4. Rapid Technological Advancements

AI technology evolves rapidly, with constant updates in tools, algorithms, and applications. As a result, some of the findings in this study may become outdated over time, limiting their long-term relevance.

6. Geographic Limitation

Most responses were gathered from urban and semi-urban areas within India. Therefore, regional and rural perspectives on AI usage, which could differ significantly, were not adequately captured in this research.

7. Absence of Industry Expert Inputs

The research did not include interviews or direct input from AI professionals, customer experience managers, or company executives. As a result, the study lacks an internal business perspective on AI deployment challenges, performance metrics, or operational impact.

8. Lack of Longitudinal Observation

This study provides a static view based on responses collected at a single point in time. It does not track how customer behavior or satisfaction evolves over the long term in response to AI-based personalization.

Conclusion

In today's highly competitive and digitally driven business environment, **Artificial Intelligence (AI)** has emerged as a transformative force in reshaping customer experience. This project aimed to explore how AI is being used to personalize services, how customers perceive these changes, and what impact it has on their overall satisfaction and brand loyalty.

The study began with a comprehensive understanding of AI technologies—such as chatbots, machine learning algorithms, recommendation engines, and virtual assistants—and how they are increasingly being deployed by businesses across industries to tailor customer interactions. With data collected from 100 respondents through a structured questionnaire, the research provided real-world insights into how users experience AI-powered services in their day-to-day lives.



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One of the most prominent findings is that **the awareness and adoption of AI tools among customers is notably high**, especially among younger demographics and tech-savvy individuals. Customers widely engage with AI applications in ecommerce platforms, OTT content streaming, banking apps, and customer support systems. These tools have improved service delivery by making it **faster**, **more responsive**, **and increasingly personalized**.

Customers also value AI for its efficiency, 24/7 availability, and ability to provide relevant suggestions or quick resolutions. For example, many respondents reported satisfaction with AI's ability to recommend products based on past purchases or browsing history. This demonstrates AI's potential in creating a more convenient, intelligent, and personalized customer journey.

However, the study also reveals **significant limitations and challenges**. Despite its strengths, AI is not flawless. A considerable portion of users shared frustrations with:

- AI systems not being able to understand complex, context-driven queries.
- Repetitive or robotic responses from chatbots.
- The absence of empathy or emotional intelligence in interactions.
- Concerns regarding data security and the ethical use of personal information.

These concerns underline the fact that while **AI enhances operational efficiency**, it cannot completely replace the **human element** in customer service. Emotional sensitivity, personalized problem-solving, and empathetic understanding are areas where human support continues to outperform AI.

From the findings, it is evident that **a hybrid model**, where AI handles the initial, repetitive, and data-driven aspects of customer service and human agents manage complex and sensitive issues, could be the most effective approach. Businesses that strike this balance are more likely to deliver consistent, meaningful, and satisfying customer experiences. Additionally, the study highlights the importance of **ethical AI design**. Transparency in how AI systems operate, how customer data is used, and ensuring privacy and consent must be a top priority for organizations that wish to retain customer trust.

Final Thoughts

To conclude, AI is revolutionizing the way businesses interact with their customers. It offers vast potential to make customer experiences more intelligent, convenient, and tailored. However, to truly unlock this potential, organizations must focus on creating AI systems that are not only smart but also ethical, empathetic, and user-centric.

The future of customer experience lies not in choosing between AI and human service—but in integrating both in a thoughtful and strategic way. As AI continues to evolve, so too will customer expectations. Businesses that embrace this change and continue to adapt their approach will be better positioned to lead in the age of personalized, data-driven engagement.

Recommendations

6.1 Ensure Transparency and Build Customer Trust

One of the main concerns identified among users is the lack of understanding and transparency regarding how AI systems work and utilize personal data. Trust in AI systems can be improved by taking the following steps:

- Clearly explain how AI-generated recommendations or decisions are made.
- Provide options for users to manage their data and opt in or out of AI-driven services.
- Adhere strictly to data protection regulations such as the General Data Protection Regulation (GDPR) or India's Digital Personal Data Protection Act.
- Establish transparency protocols that reassure users about the security and privacy of their personal information.

6.2 Deliver Relevant Personalization Without Being Intrusive

Personalization should add value to the customer experience without causing discomfort. Over-personalization or repeated targeting may lead to irritation or a sense of surveillance.

- Personalize customer interactions based on context, location, time, and preferences.
- Avoid excessive prompts, notifications, or irrelevant recommendations.
- Allow customers to choose the level of personalization they are comfortable with.
- Conduct regular feedback surveys to understand user experience and perception of AI usage.

6.3 Balance Automation with Human Interaction

While customers appreciate the speed and convenience of AI-based chatbots, they also value empathy and understanding



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during complex or emotional situations.

- Use AI for handling simple and routine customer queries.
- Ensure a smooth handover to human representatives for more complex or emotional cases.
- Provide visible options for users to contact human agents if needed.
- Train support teams to understand and leverage AI-generated insights to improve customer service.

6.4 Customize AI Use Across Different Industries

AI solutions should be tailored to suit the nature of the industry and the specific needs of customers in that sector.

- In e-commerce, focus on accurate product recommendations and predictive cart suggestions.
- In entertainment and OTT platforms, provide dynamic content suggestions based on recent viewer behavior.
- In banking, use AI to offer customized alerts, spending insights, and risk assessments.
- In food delivery services, provide recommendations based on dietary preferences, time of day, and location.

6.5 Incorporate Emotional Intelligence and Sentiment Analysis

AI systems should be capable of identifying emotional cues from customers to respond appropriately.

- Use sentiment analysis tools to assess the tone of customer messages or reviews.
- Redirect users with negative sentiment to human agents for resolution.
- Use AI to monitor customer frustration trends and modify communication strategies accordingly.

6.6 Localize and Enhance AI Responsiveness

India's linguistic and cultural diversity makes localization essential for effective personalization.

- Incorporate Natural Language Processing (NLP) capabilities in regional languages.
- Ensure voice-based AI assistants are responsive, accurate, and accessible across devices.
- Design personalized recommendations that reflect local trends, festivals, and behavioral patterns.

6.7 Educate Customers About AI Usage

A considerable number of users interact with AI unknowingly. Educating customers about how AI benefits them can lead to increased acceptance and engagement.

- Introduce tutorials or tooltips that explain AI features during onboarding.
- Use clear and simple language to show how AI contributes to improved service delivery.
- Highlight user control and safety measures in AI usage.

6.8 Continuously Monitor and Improve AI Performance

Customer preferences are dynamic, and AI models must evolve accordingly.

- Regularly update AI systems with the latest data to maintain relevance.
- Use A/B testing to compare the effectiveness of different personalization techniques.
- Collect real-time feedback from users to refine algorithms.
- Define key performance indicators (KPIs) for AI accuracy, speed, and impact.

6.9 Promote Ethical and Inclusive AI Development

AI models can unintentionally create biases or exclude certain customer groups if not designed inclusively.

- Train AI algorithms on diverse data sets representing different ages, regions, and demographics.
- Ensure AI systems do not discriminate based on gender, location, language, or digital access.
- Design interfaces that are accessible to individuals with disabilities and the elderly.

Summary of Recommendations

Customer Awareness

Key Actions
Data control, explainability, privacy protocols
Contextual suggestions, feedback, non-intrusiveness
Use AI for routine tasks, human for complex issues
Tailor AI for banking, e-commerce, OTT, food delivery
Use sentiment detection and redirect negative sentiment
Multilingual NLP, cultural relevance

Continuous Optimization A/B testing, real-time feedback, model improvement

Tutorials and visible benefits of AI usage



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Area Key Actions

Ethical AI Design Inclusive training data, anti-bias development

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nnexures

Survey Questionnaire

Annexure - I: Survey Questionnaire

The following questionnaire was used to collect primary data for the project titled "Role of AI in Personalizing Customer Experience". The form was distributed via Google Forms and received responses from 100 participants.

Google Form Title:

Survey on AI in Customer Experience

SECTION A: DEMOGRAPHIC DETAILS

- 1. Age Group
- o Under 18
- o **18–24**
- o **25–34**
- o **35–44**
- o 45 and above
- 2. Gender
- o Male
- o Female
- o Other
- o Prefer not to say
- 3. Profession
- Student
- Working Professional
- **Entrepreneur**



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Homemaker Other

SEC	TION B: AI USAGE AND EXPERIENCE
4.	Are you aware of how AI is used in customer service?
0	Yes
0	No
0	Not Sure
5.	In which services have you experienced AI? (Multiple selections allowed)
0	Chatbots (e.g., on websites or apps)
0	Product Recommendations (e.g., Amazon, Netflix)
0	Virtual Assistants (e.g., Siri, Alexa)
0	Automated Emails/Alerts
0	Others (please specify)
6.	How often do you interact with AI in customer service?
0	Very Frequently
0	Occasionally
0	Rarely
0	Never
7.	How would you rate your experience with AI-based customer service?
(Sca	le: 1 = Poor, 5 = Excellent)
0	1
0	2
0	3
0	4
0	5
8.	Do you feel AI services understand your needs better than human service?

8. Do you feel AI services understand your needs better than human service?

0 Yes No 0

Sometimes 0

What 9. benefits have observed in AI-enabled customer services? you (Open-ended)

10. What problems frustrations faced while interacting ΑI services? or have you with (Open-ended)

Annexure – II: Sample Survey Responses Summary

Question Summary of Responses

Age Group Majority in 18-24 and 25-34

AI Awareness 90% said Yes

AI Usage Chatbots and Recommendations most used

Most said Occasionally or Frequently Frequency

Helpfulness Mostly rated 3 or 4 out of 5

Benefits Speed, personalization, 24/7 access

Issues Lack of empathy, poor query handling, privacy concerns

Annexure - III: Tools Used

- Data Collection Tool: Google Forms
- Data Analysis Tool: Microsoft Excel (for graphs and charts)
- Report Writing & Formatting: Microsoft Word