#### AI-POWERED LOAN SERVICES: A CUSTOMER-CENTRIC ANALYSIS

#### By

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#### **Abstract**

The infusion of Artificial Intelligence (AI) in the banking industry has transformed the service delivery, especially the process of loan disbursement. In this context, the present study intends to explore the customers' awareness, perception, and willingness to adopt AI-powered loan services. To fulfill the objectives, a descriptive cross-sectional research design was employed, and the required data was collected using a structured questionnaire from customers of commercial banks. The findings revealed a moderate level of awareness and positive perceptions among customers about AI-powered loan services. Both awareness and perception were found to have significant positive contributions towards their willingness to adopt AI-powered loan services. The findings also suggest various practical implications for banks and other financial service providers to ensure the successful implementation of technological advances in the banking sector.

**Keywords:** AI-powered loan services, customer awareness, customer perception, and willingness to adopt AI

#### Introduction

The financial services sector has undergone rapid and striking changes in propelled recent years, by innovations in digital technologies (Malini Menon, 2017). Notably, Artificial Intelligence (AI) emerges as a element transforming defining traditional banking practices (Noreen et al., 2023). In commercial banking, AI is increasingly applied in customer service automation. credit risk assessment. fraud detection, etc., especially in the loan disbursement process (Pamarthi, 2024). With the aid of language processing, natural machine learning algorithms, and data analytics, AI aims to make the loan disbursement more accurate, efficient,

and accessible (Mary et al., 2024). Even so, the success of such advanced technological systems depends not just on their technological excellence but also on the customers' awareness, confidence, and trust in such advanced systems.

Loan disbursement is a vital, most sensitive, and critical function of any bank, as it has implications from the standpoint of credit availability, financial inclusion, and customer trust. Traditionally, the disbursement involved face-to-face process interactions, manual verification of documents. and personalized assessments, ultimately a humancentric function. With the advent of AI, this process has offered significant advantages. such as data-driven decision-making, quicker approvals, and scalable loan management (Alhaddad, 2018). But this transition also important raises concerns regarding transparency, data privacy, security, and customer acceptance (Pamarthi, 2024). So, an AI-powered system may fall short if the target customers lack adequate awareness, positive perception, and willingness to adopt such systems.

The customers' awareness of AIpowered loan services refers to the degree to which they are informed of AI's application in disbursement. It consists of their AI's familiarity with usage creditworthiness, of assessment document verification, assistance of AI chatbots, the potential benefits and concerns, etc., in loan processing. Inadequate awareness of a customer may result in reluctance to use such loan services, even if superior benefits are assured. Conversely, a wellinformed customer will be more likely to engage in such loan services. The perception of a customer about AIpowered loan services includes the beliefs regarding comfort level in AIpowered systems. accuracv automated decisions, concerns about data privacy and security, etc. Positive perception may drive adoption, and a negative one can hinder acceptance. A customer's willingness to adopt an AIpowered loan service conveys the behavioural intention to apply for AIpowered loan services soon. If the customers are well-informed and hold positive perception about AIpowered loan services, they are more likely to adopt them (Noreen et al.,

2023). Conversely, inadequate awareness and doubts about its efficiency and effectiveness may hinder the adoption (Noreen et al., 2023).

In light of this, a customer-centric analysis of AI-powered loan disbursement will be crucial, as it aids in understanding its effectiveness and sustainability in the real world. Despite the growing application of AI in various facets of financial services, the academic research from a customer perspective, especially in the function of loan disbursement, remains limited. Most studies have focused on implementation challenges, techno logical architecture, or predictive organization's from the accuracv viewpoint. The customers' voice, their participation, and trust remain unexplored. Hence, this study intends to explore this gap by analysing the customers' awareness, perception, and willingness to adopt AI-powered loan services. Given this backdrop, this study aims to fulfill the following objectives:

1. To assess the customers' awareness of AI-powered loan services in commercial banks.

- 2. To examine the customer perception towards AI-powered loan services in commercial banks.
- 3. To analyse the influence of customer awareness and perception on the willingness to adopt AI-powered loan services.

By examining the given objectives, this comprehensive study adopts a perspective on the role of customers in enabling AI's adoption in commercial banking. The findings of this study will aid banks and other financial service providers in optimizing their initiatives. In addition, this study contributes to the literature on Al's adoption in banking services and guides future researchers in this discipline.

#### **Review of Literature**

Artificial intelligence, or AI, is not a recent concept; it has its origin in ancient Egyptian and Greek myths (Mouneswari, 2024). AI plays a vital role in transforming today's world into a more innovative and efficient one. During the last few vears. advancements in AI have transformed role of traditional the service

providers, including the banking sector (Liu et al., 2025). The revolution put forward by AI altered the banking sector in a novel way (Alhaddad, 2018). One of such advancement is the AI-powered loan services (Liu et al., 2025). Banks are using AI-enabled loan recommendation services (AI-LRS) in loan processing (Liu et al., 2025). AI-LRS analyses borrowers' information, such as their loan amount, credit history, repayment plan, and other relevant information, and processes it through automated algorithms suggest personalized loan offers for each (Liu et al., 2025). Alhaddad (2018) provides an understanding that AI transformed the banking sector by elevating fraud detection, automating document processing, & streamlining credit management. They highlight the ability of AI to detect fraud patterns with higher levels of accuracy, speed, and flexibility, surpassing the traditional methods by analysing a vast volume of data. AI enables banks to identify the borrower risk, automate the loan pricing and underwriting, and ensure credit access to the overlooked population. By integrating Natural Language Processing (NLP), Optical Character Recognition (OCR), and

Robotic Process Automation (RPA), AI facilitates intelligent document processing. Mary et al. (2024) opined that AI is considered a promising tool microfinance institutions improve their decision-making process by leveraging big data analytics, advanced algorithms, and machine learning models. Rehman et al., (2025) shows that AI has heightened the firsttime approvals for borrowers. enhanced loan access to women, and of elevated the disbursement microloans in rural areas. Singh & Sinha (2024) identified the role of AIbased chatbots in enhancing the customer experience. AI-based chatbots act as a financial advisor, offering financial guidance tailored to the customers' financial history. assisting with queries on loans, debt credit management, scores, and and offering investments. alerts regarding important financial dates. Rao (2022) says that AI enables banks to secure an increasing market share, enhance profit levels, and serve a wide volume of customers. and it is becoming critical to success. ΑI ensures additional value for customers, partners, and the bank as it gives a clear competitive edge for the banks

through its implementation at a mass scale (Rao, 2022). Nowadays, leading banks, including HDFC, ICICI, AXIS Bank, SBI, and HSBC, have adopted AI to enhance their operational efficiency and customer service (Mouneswari, 2024).

In short, the AI-based future of banking ensures reduced transaction costs, enables efficient customer service, customizes, personalizes, and expands financial product offerings, provides better investment insights, ensures credit access to the underserved, facilitates efficient decision-making, and increases banks' productivity and profitability (Alhaddad, 2018). Even so, there exist some challenges such as data privacy and security matters, ethical and regulatory concerns. algorithmic biases, difficulties institutions with resource constraints, and last but not least, customers' hesitation to adopt AI-powered loan services (Rehman et al., 2025). Despite the increasing interest and adoption of AI in banking services, a very few studies have undertaken a customer centric analysis of AI-powered loan services in commercial banks. Hence, this study intends to fill this gap.

#### **Hypotheses**

Ho1: Awareness of AI-powered loan services positively influences the willingness to adopt them.

Ho2: Perception of AI-powered loan services positively influences the willingness to adopt them.

#### **Research Methodology**

The present study adopted descriptive and cross-sectional research design to analyse customer perspective on AI-powered disbursement in commercial banks in Malappuram district, Kerala. The data required for the study were collected from both primary and secondary sources. The primary data obtained by employing was structured, self-developed scale. All the used scale items to measure awareness, perception, and willingness to adopt AI-powered loan services secured a Cronbach's alpha value greater than 0.7, ensuring internal consistency (Hair et al., 2019). Further to ensure the construct validity, an exploratory factor analysis was performed. All the scales secured the Kaiser-Meyer-Olkin (KMO) measure

er

Male

43

43

above 0.90 and a significant Bartlett's Test of Sphericity (p<0.001), ensuring sampling adequacy excellent suitability for factor analysis. All the scale items exhibited factor loadings above 0.70 and formed a single-factor structure, explaining over 70% of total confirming variance. Hence, the construct validity and unidimension ality of all the scales. In addition to the primary data, secondary data were from obtained various scholarly articles, books, reports, and websites. The collected data was analysed by using IBM SPSS Statistics.

#### **Results and Discussions**

Table 1. Socio-Demographic Profile of Respondents

| Variable | Category          | Frequency | %  |
|----------|-------------------|-----------|----|
|          | Below 25<br>years | 41        | 41 |
|          | 25-35 years       | 38        | 38 |
| Age      | 35-45 years       | 13        | 13 |
|          | 45-55 years       | 5         | 5  |
|          | Above 55<br>years | 3         | 3  |

| de                                      | Maie                   | 43 | 43 |
|---|------------------------|----|----|
| Gende                                   | Female                 | 57 | 57 |
| nal<br>ion                              | Up to SSLC             | 9  | 9  |
|   | Plus two               | 11 | 11 |
| Educationa<br><sub>[</sub> ualificatio] | UG                     | 34 | 34 |
| Edu<br>qual                             | PG                     | 30 | 30 |
|   | Others                 | 16 | 16 |
|   | Student                | 42 | 42 |
| on                                      | Salaried<br>employee   | 34 | 34 |
| Occupatior                              | Self<br>employed       | 12 | 12 |
| Ŏ                                       | Retired                | 5  | 5  |
|   | Others                 | 7  | 7  |
|   | Less than<br>Rs. 20000 | 59 | 59 |
| ome                                     | Rs.20000-<br>Rs. 40000 | 16 | 16 |
| Monthly income                          | Rs.40000-<br>Rs. 60000 | 13 | 13 |
| Mont                                    | Rs.60000-<br>Rs. 80000 | 5  | 5  |
|   | Above<br>Rs. 80000     | 7  | 7  |
| Area of<br>esidence                     | Urban                  | 30 | 30 |
|   | Semi urban             | 34 | 34 |
| Aı                                      | Rural                  | 36 | 36 |
| Source: Author's compilation from       |                        |    |    |

Source: Author's compilation from primary data

Table 1 depicts the respondents' sociodemographic profile. The majority of the respondents are young, with 41% falling in the age group of below 25 years, 38% in 25-35 years, 13% in 35-45 years, 5% in 45-55 years, and the remaining 3% in the above 55 years. Regarding the gender of respondents, a slightly higher majority is constituted by females (57%), compared to males (43%).Concerning educational qualification, 34% secured an undergraduate degree, 30% a postgraduate degree, and the remaining up to SSLC (9%), plus two (11%), and others (16%), suggesting a well-educated respondent profile. Occupationally, the majority are (42%)students and salaried employees (34%) and the remaining are self-employed (12%), retired (5%), other categories (7%). The monthly income shows a majority (59%) being in the less than Rs.20000 category, followed by 25% above Rs.40000 and 16% Rs.20000-Rs.40000, indicating the early career stage of respondents. The area of residence indicated a well-balanced geographical representation of 30% from urban areas, 34% from semiurban areas, and the remaining 36% from rural areas.

Table 2. Awareness of AI-Powered Loan Services

| Statement  | Mean                    | SD    |  |  |  |
|--|-------------------------|-------|--|--|--|
| Some of the banks use AI-powered systems in their loan           | 3.75                    | 1.234 |  |  |  |
| disbursement.  |                         |       |  |  |  |
| The information regarding AI-powered loan services is received   | 3.79                    | 1.233 |  |  |  |
| through customer service representatives, advertisements, banks' |                         |       |  |  |  |
| websites, friends, etc.  | websites, friends, etc. |       |  |  |  |
| Al can be used to assess the creditworthiness and risk for loan  | 3.74                    | 1.330 |  |  |  |
| disbursement.  |                         |       |  |  |  |
| AI can aid the document verification in loan processing.         | 3.73                    | 1.270 |  |  |  |
| AI can detect the risk elements and fraud in loan applications.  | 3.61                    | 1.363 |  |  |  |

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| In loan approval and denial, AI can make wiser decisions.                          | 3.65 | 1.274 |
|--|------|-------|
| AI-powered systems can deliver personalized loan offers.                           | 3.70 | 1.227 |
| AI chatbots can assist in loan-related enquiries.                                  | 3.58 | 1.304 |
| AI-powered loan services have the potential benefits such as efficiency and speed. | 3.61 | 1.363 |
| AI-powered loan services have concerns regarding data privacy and security.        | 3.60 | 1.287 |

Source: Author's compilation from primary data

Table 2 presents the data regarding respondents' awareness of AI-powered loan services. The results indicate a good level of awareness of AI-powered loan services, with mean values above average. The respondents were found have the highest awareness regarding the receipt of information from various sources, such as banks' websites, service representatives, and advertisements (mean = 3.79).reasonable level of awareness was secured regarding the use of AI in the assessment of credit worthiness (mean=3.74), document verification (mean=3.73), personalized loan offers

(mean=3.70), and loan disbursement (mean=3.75). Even so, in comparison to the above result, respondents indicated a lower awareness regarding the assistance of AI chatbots in loanrelated inquiries (mean=3.58), AI's role in fraud detection (mean=3.61), and potential concerns in privacy and security (mean=3.60). The reported deviations standard the across statements, ranging from 1.23 to 1.36, indicate a moderate variation in responses. Overall, the respondents were found to be aware of AI-powered loan services.

**Table 3. Perception of AI-Powered Loan Services** 

| Statement   | Mean | SD    |
|---|------|-------|
| AI can make the loan disbursement process efficient and faster. | 3.95 | 1.067 |

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| AI can aid the loan disbursement process with unbiased decisions.                            | 3.89 | 1.072 |
|--|------|-------|
| It is comfortable to share personal financial information with AI-powered loan applications. | 3.60 | 1.239 |
| AI facilitated advanced and cost-effective access to loan services.                          | 3.77 | 1.127 |
| AI-powered loan services can be preferred over human-assisted loan services.                 | 3.65 | 1.192 |
| Concern should be given to data privacy in AI-powered loan applications.                     | 3.63 | 1.244 |
| AI-powered systems are very optimistic regarding loan disbursement.                          | 3.67 | 1.155 |

Source: Author's compilation from primary data

Table 3 shows the respondents' perception of AI-powered services, and it was found to be positive. Respondents perceived AI as a system that is capable of enhancing the efficiency and speed of loan disbursements (mean = 3.95)and unbiased decisions making (mean=3.89). Respondents agreed that AI has enhanced loan accessibility (mean=3.77) and hold an optimistic view regarding loan disbursement (mean=3.67). While the respondents agreed on the preference of AI-

powered loan services over humanassisted services (mean=3.65) and were comfortable in sharing personal financial information with AI-powered systems (mean=3.60), they also had about data concerns privacy (mean=3.63). The standard deviations ranging from 1.06 to 1.24 reported a moderate level of variation in the Overall. the findings responses. supported a favourable attitude of respondents toward the AI-powered loan services even amid the privacy concerns.

**Table 4. Willingness to Adopt AI-Powered Loan Services** 

| Statement  | Mean | SD    |
|--|------|-------|
| My confidence in applying for a loan has improved with the           | 4.19 | 1.051 |
| arrival of AI-powered loan services.                                 |      |       |
| I am willing to apply for a loan through AI-powered systems in       | 4.11 | 1.081 |
| the future.  |      |       |
| I think it is better to go for an AI-powered loan service than a     | 4.11 | 1.053 |
| traditional loan service.  |      |       |
| If the banks offer flexible payment systems and structured           | 4.11 | 1.118 |
| interest rates, I am likely to go for AI-powered loan services.      |      |       |
| If the banks offer an assurance of their reliability and security, I | 4.03 | 1.096 |
| would feel much comfortable in AI-powered systems.                   |      |       |
| I prefer AI-powered systems because of the reduced paperwork         | 3.98 | 1.128 |
| in loan disbursement.  |      |       |
| If I had a positive experience with AI-powered loan services, I      | 3.86 | 1.189 |
| would surely recommend them to others.                               |      |       |
| Al-powered loan services are encouraging me to try new and           | 3.91 | 1.164 |
| innovative financial products.                                       |      |       |
| I believe that AI-powered loan services will get a wide adoption in  | 3.98 | 1.189 |
| the banking sector shortly.  |      |       |

Source: Author's compilation from primary data

Table 4 shows the data relating to respondents' willingness to adopt AIpowered loan services. The respondents exhibited a positive and favourable approach towards its The statement adoption. "My confidence in applying for a loan has improved with the arrival of AIpowered loan services," with the highest mean value (4.19), indicates that AI has enhanced customer confidence in loan applications. A strong conditional willingness towards AI adoption in loan disbursement is exhibited through statements such as "If the banks offer flexible payment systems and structured interest rates, I am likely to go for AI-powered loan

services" (mean=4.11), "If the banks offer an assurance of their reliability and security, I would feel much more comfortable in AI-powered systems" (mean=4.03), and "I prefer AI-powered systems because of the reduced paperwork in loan disbursement" (mean=3.98). The statement regarding respondents' openness to recommending the AI-powered loan services to others exhibits the role of actual experience in advocacy (mean = 3.86). Similarly, the trend of growing

AI-powered acceptance of loan services is exhibited through the statements regarding the belief of AI's wide adoption in banking (mean=3.98) and encouragement to try innovative financial products (mean=3.61). The standard deviations for all these statements, ranging between 1.05 and 1.18, indicate a moderate variability in respondents' opinions. Overall, the findings supported the respondents' strong inclination to adopt AI-powered loan services.

Table 5. Results of Correlation and Regression between Awareness, Perception, and Willingness to Adopt AI-Powered Loan Services

| No. | Hypotheses           | Test statistic | P value | Inference   | Test used   |
|-----|----------------------|----------------|---------|-------------|-------------|
| H1  | Awareness →          | 0.412          | 0.000   | Significant | Correlation |
|     | Willingness to adopt | 0.230          | 0.024   | Significant | Regression  |
| H2  | Perception →         | 0.478          | 0.000   | Significant | Correlation |
|     | Willingness to adopt | 0.362          | 0.000   | Significant | Regression  |

Source: Author's compilation from primary data

The relationship between respondents' awareness, perception, and willingness to adopt AI-powered loan services was studied by performing correlation and regression. The results of the same are arranged in Table 5. The results of correlation indicated a significant

positive relationship between respondents' awareness and willingness to adopt AI-powered loan services (r=0.412, p value=0.000) and their perception and willingness to adopt AI-powered loan services (r=0.478, p value=0.000). This is

further reinforced by the results of regression, revealing a significant positive contribution from respondents' awareness to willingness to adopt ( $\beta$ =0.230, p value=0.024) and from their perception to willingness to adopt ( $\beta$ =0.362, p value=0.000). Hence, accepting hypotheses H1 and H2 indicates the positive influence of both awareness and perception of AI-powered loan services on respondents' willingness to adopt AI-powered loan services.

### Findings of the Study

This study sought to examine the awareness, perception, and willingness to adopt AI-powered loan services customers among in commercial banks. The respondents were found to be aware of AI-powered loan services. They were well-informed about the Al's application in the assessment of creditworthiness. document verification. and the associated benefits, such as increased efficiency and speed. They have received the information regarding AI-powered loan systems from the banks' websites, advertisements, and customer service representatives. Even their SO.

awareness about the assistance of AI chatbots in clarifying loan-related inquiries and the potential risks of data privacy and security was slightly lower. In terms of perception, the respondents viewed the AI-powered loan services in a positive sense. They highlighted the role of AI in enhancing the speed and efficiency of loan processing and the potential to make unbiased decisions. Despite these, concerns are there regarding data privacy. The respondents also agreed that they are willing to adopt AIpowered loan services. Respondents exhibited a high level of willingness to use AI-powered loans over traditional loan services when combined with the practical benefits, such as reduced paperwork, flexible payment systems, and structured interest rates. The results of correlation and regression verified the contribution of respondents' awareness and perception of AI-powered loan services in enhancing their willingness to adopt This AI-powered loan services. highlights the critical role of customers' knowledge and attitude in enabling the AI adoption in loan services.

#### Conclusion

In light of the findings, this study concludes that the customers demonstrate a favourable stance towards the AI-powered loan services in commercial banks. The results reinforce that higher awareness and positive perception of AI-powered loan services are the critical drivers ensuring customers' willingness to adopt AI-powered loan services. The customers value the speed efficiency enhanced by the AI-powered systems and are concerned about the data and privacy issues in AI-powered loan services. They opined that if banks ensure the reliability and security of AI-powered systems and offer flexible payment systems and structured interest rates, their adoption rate will increase. Hence. confirming the growing inclination towards the adoption of AI-powered loan services.

These findings various suggest practical implications for banks and other financial service providers. The hanks must improve their communication strategies well inform their customers regarding the operational aspects and potential

benefits of AI-powered loan services. Awareness campaigns to highlight the features of AI-powered security systems in banking can also be organised to improve the adoption rate. In addition, the banks should also to build trust by ensuring transparency in how AI-powered systems function and handle customer data securely. These actions will not only improve the users' confidence in AI-powered systems but also ensure the implementation of technological advancements in banking.

# Limitations and Scope for Further Research

Despite the valuable findings, the study has some limitations. This study was within the conducted specific geographical area of Malappuram district, Kerala, hence limiting the generalizability of the findings. In addition, the data collected through the self-administered questionnaire subject to response bias. This study has adopted a cross-sectional research design; hence, it may not fully capture the evolving opinions of customers as Al continues to develop day by day. Future researchers could explore these limitations and conduct longitudinal

studies focusing on AI-powered systems awareness, perception, and

willingness to adopt the same over time. Moreover, significant mediating

and moderating variables can also be incorporated within this model, such as digital literacy, trust in technology, etc.

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