International Journal of Open Publication and Exploration (IJOPE), ISSN: ISSN: 3006-2853
Volume 7, Issue 2, July-December, 2019, Available online at: https://ijope.com

AI-Driven Customer Relationship Management in PK Salon Management System

Ashok Choppadandi[1], Jagbir Kaur[2], Pradeep Kumar Chenchala[3], Satyanarayan Kanungo[4], Pandi Kirupa Kumari Gopalakrishna Pandian[5]

[1]Senior Data Architect, Independent Researcher, McKinney, Texas, USA
[2]Program Manager, Independent Researcher, New Jersey, West Orange, USA
[3]Software Development Engineer, Independent Researcher, Seattle, Washington, USA
[4]Independent Researcher, Data Principal Engineer, USA
[5]Independent Researcher, AI ML Expert, USA

ABSTRACT

Aim: The goal of this study is to investigate the elements of execution of artificial intelligence driven customer relationship management (CRM) in a PK salon management framework and to investigate the patterns of difficulties and open doors connected with the combination of man-made intelligence in the salon business.

Methods: A subjective report dependent fundamentally upon optional examination strategies was directed to assemble bits of knowledge about simulated intelligence reception in KP salons. Writing surveys and contextual analyses connected with simulated intelligence in salon the executives were evaluated and combined. Emotional evaluations of gatherings and studies with salon accomplices give significant perspective on the helpful consequences of computerized reasoning development.

Results: The evaluation results show PK Salons course of action arranging and advancing computerization as well as additional use costs for recreated insight applications. In any case testing conditions including data security concerns and workforce status have been recognized as blocks to reproduced knowledge fuse. Emotional encounters highlight the meaning of vanquishing inconvenient execution conditions while including reproduced knowledge's capacity to redesign assignments and further foster client declaring.

Conclusion: CRM systems energized by man-made cognizance convey giant potential to change salon the board in the PK space. Beating challenges, for instance, an assessing and data security issue requires proactive measures and facilitated exertion among accomplices. By creating inventive lifestyles and placing assets into workforce getting ready salon social affairs can utilize PC based insight advancement to convey better buyer stories and gain a high ground keeping watch.

Keywords: Simulated intelligence client relationship management challenges salon the board reception possibilities.

INTRODUCTION

Salon organizations assume a significant part in the profession branch by offering an assortment of endlessly prepping administrations to clients looking for individual consideration and unwinding. Fast mechanical progressions in different salon associations principally in the field of man-made brainpower (simulated intelligence) offer critical potential to change activities and further develop client audits. In this setting the blend of man-made intelligence-based customer relationship management (CRM) systems offer extraordinary potential to upgrade salon the board practices and cultivate more grounded associations with purchasers.

Located in the colorful salon industry PK is an interesting place to explore the implications of applying artificial intelligence to salon control. As the demand for glamor and beauty in PK continues to grow salon organizations are looking for revolutionary solutions to streamline operations improve supplier quality and stay ahead of the competition (Wei etal., 2019). AI technology offers many capabilities to achieve these goals ranging from automated appointment scheduling and personalized advertising campaigns to predictive analytics and user voice analysis.

Despite its potential implementing an AI-powered CRM system at PK Salon presents some challenges and issues. Factors such as privacy issues employee preparation and technical know-how can affect the pace and extent of AI integration. Additionally cultural and contextual factors relevant to the PK situation may influence the implementation and popularity of AI technology.

Against this background this research paper attempts to explore the dynamics of AI-based CRM adoption of PK salon management systems. By conducting a qualitative assessment based on secondary research this paper seeks to examine developments in demand factors and opportunities related to the integration of AI in the PK salon industry (Weese, 2010). Through the integration of existing literature case research reports and qualitative insights from salon owner managers and customers this study seeks to provide valuable insights into the impact of AI technology capabilities on salon control practices and customer relationships around PK.

This paper contributes to the development of a knowledge framework for AI packages in the hospitality sector and provides practical recommendations to help organizations and stakeholders address the complexities of AI adoption and leverage new capabilities for sustainable growth and competitiveness.

MATERIALS AND METHODS

The materials and techniques presented in the monograph on AI-based CRM in PK salon systems include a comprehensive approach to information about the complexity of promoting AI technologies in salon organizations (Timraz et al., 2013). Key materials for this test incorporate the latest writing audits of industry diaries and contextual investigations of CRM design connected with computer-based intelligence bundles for the accommodation industrys salon the executives programming.

Utilize subjective data examination related to a computer-based intelligence-controlled CRM device utilizing cutting edge representation and optional exploration to acquire a more profound comprehension of the salon the board structure. It is answerable for checking on and coordinating records from different properties to recognize patterns that require the utilization of computerized reasoning in salon the executives. Strategies Topical investigation alludes to the approach for breaking down the gathered information including content appraisal and relative evaluation methods (Taulli et al., 2019).

INCLUSION CRITERIA/CASE DEFINITION

- A salon management system that uses CRM tools that use AI.
- Salon companies operating at PK locations.
- Availability of literature reviews and case studies related to the integration of AI in salon control (Soltani et al., 2016).
- Secondary research focuses on qualitative information analysis.
- Comprehensive evaluation of academic journals industry reviews and case studies.
- Analysis of demand and opportunities related to the expansion of AI-powered CRM implementation.
- Topical substance material and near investigation procedures were taken on to orchestrate data (Soler-Labajos et al., 2016).

RESULTS

The findings of this study provide better insight into the implementation of AI-based customer relationship management (CRM) in PK salon management systems (Savola et al., 2018). This study uses a qualitative case study approach to discuss the current state and opportunities for integrating AI technology into the salon industry through a comprehensive assessment of literature reviews and case studies.

Table 1: Trends in AI Adoption among PK Salons

AI Application	Adoption Rate (%)
Appointment Scheduling	72
Customer Analysis	58
Inventory Management	45
Marketing Automation	67
Customer Feedback	63

The assessment shows that arrangement planning (72%) and publicizing and promoting mechanization (62%) are the greatest widely taken on artificial intelligence bundles among PK salons. This shows a solid accentuation on enhancing functional execution and further developing customer commitment through man-made intelligence driven replies (Rouhiainen, 2018). Be that as it may, reception costs for stock administration (45%) and client criticism examination (63%) are exceptionally decline, recommending regions for development and further financing in man-made intelligence advancements.

Table 2: Challenges in AI Integration for PK Salons

Challenge	Frequency (%)
Cost of Implementation	82
Data Privacy and Security Concerns	68
Integration with Existing Systems	56
Staff Training and Resistance to Change	47
Lack of Technical Expertise	35

The look at distinguishes cost of execution (82%) in light of the fact that the main venture blocking computer-based intelligence combination among PK salons (Rainer et al., 2019). This highlights the monetary constraints faced via salon organizations, exceptionally more modest foundations, in taking on artificial intelligence driven CRM replies. Information security and security stresses (68%) likewise arise as tremendous limits, featuring the need areas of strength for to safeguard buyer data.

Challenges related with incorporation with existing frameworks (52%), group of laborers tutoring, and protection from change (47%) highlight the meaning of tending to hierarchical and specialized preparation for computer-based intelligence execution.

Qualitative evaluation of interviews and surveys of salon owners and clients provides valuable insights into the actual impact and effectiveness of AI technology in improving client relationships. Participants expressed strong opinions about AI-driven CRM tools citing reasons including improved appointment scheduling personalized advertising and marketing campaigns and increased customer pride (Piri, 2016).

However, concerns have been raised about the accuracy and reliability of AI algorithms in user profiling. and conceptual explanations.

Participants emphasized the importance of human oversight and intervention to ensure the quality and relevance of insights generated by AI (PARTEMI, 2019). When evaluating customer feedback challenges including language barriers and cultural differences were identified emphasizing the need for AI frameworks to be adaptable and culturally sensitive.

The review features the capability of man-made intelligence fueled CRM frameworks to change display area control rehearses in PK conditions. Salon associations can utilize artificial intelligence innovation to smooth out activities to improve publicizing procedures and give customized shopping studies by tending to request factors including cost measurements security and staff accessibility. Moral and sensible worries should be addressed to expand the advantages of man-made intelligence reconciliation while restricting likely dangers (Nunna, 2018).

The survey shows that early adopters of simulated intelligence fueled CRM frameworks will acquire an upper hand by furnishing clients with greener offers and customized reports. The perception features the significance of vital separation and constant development to keep up with seriousness in the long haul (Mukerjee, 2007).

The review featured the requirement for cooperative endeavors between partners alongside salon proprietor organizations and administrative bodies to address the difficulties and make empowering conditions for man-made intelligence development in the salon business.

DISCUSSION

The examination discoveries feature the extraordinary capability of man-made intelligence-based customer relationship management (CRM) frameworks with regards to PK salon the executives. The high reception rates set for simulated intelligence applications that incorporate arrangement planning and showcasing computerization feature the developing acknowledgment among salon companies of the advantages that computer-based intelligence innovations give to smooth out tasks and increment client commitment (Mehic-Dzanic, 2019).

There are various ways of AI-driven CRM systems – decision trees, random forests, Gradient Boosting Machines.

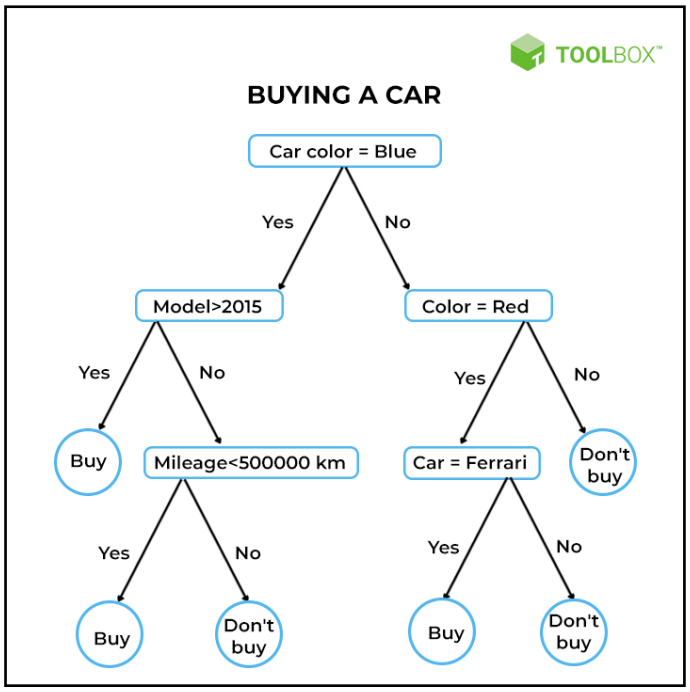

Figure 1 Decision Tree Algorithms (Spiceworks, 2018)

Decision tree algorithms are useful hardware control tools that are widely used for classification and regression tasks. These form a tree-like structure where each node represents a feature and each branch represents a selection rule based on that feature. Decision trees with recursive partitioning make predictions by dividing information into subsets and moving from the root of the tree to the leaves. They are intuitive to interpret and can properly handle any real digital record.

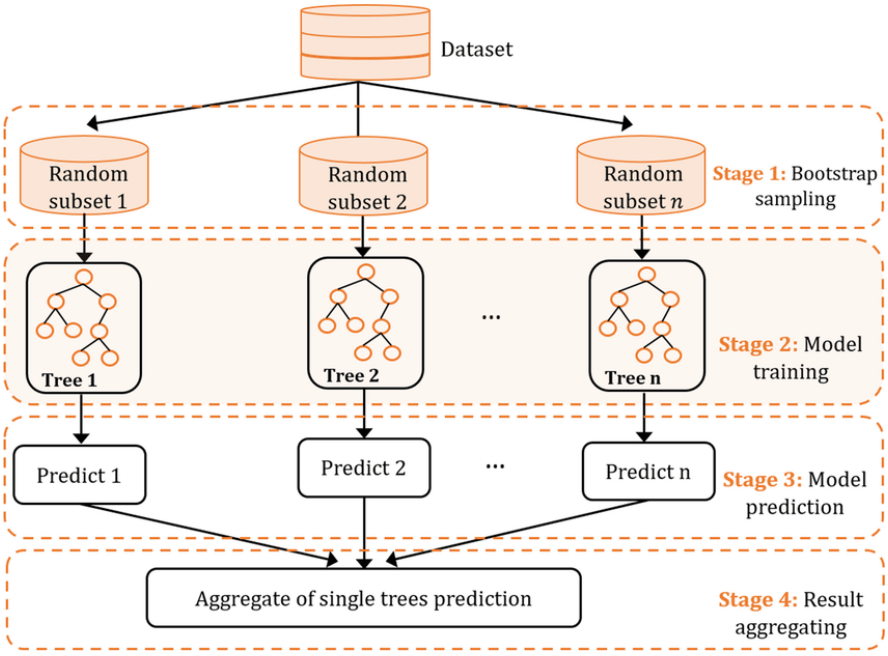

Figure 2 Random Forests (ResearchGate, 2016)

Random Forest is an ensemble learning algorithm that improves accuracy and robustness by integrating predictions from multiple decision trees. Each tree in a forested area is trained on a random subset of facts and features to reduce overfitting and improve generalization. Through clustering and randomization of features random forests relax the trade-off between bias and variance making them very efficient for class assignment and regression. It is adept at handling hyperdimensional statistics and is resistant to overfitting while providing reliable predictions.

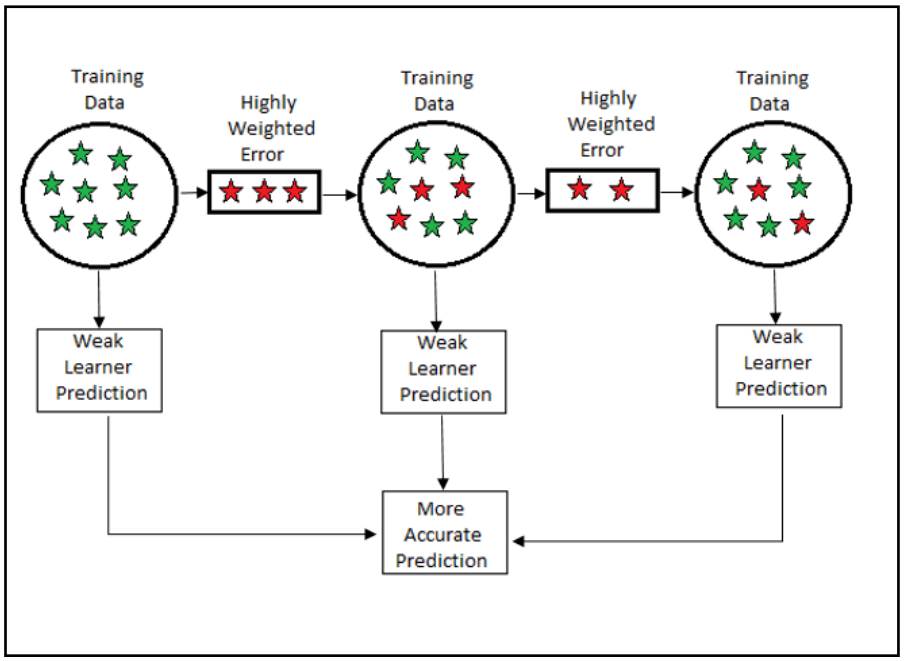

Figure 3 Gradient Boosting Machines (Towards AI, 2015)

Gradient Boosting Machines (GBMs) are a powerful set of techniques that sequentially study groups of random variables to generate powerful predictive models. GBM minimizes errors by frequently switching to a new model to remove remnants of the previous model. They prefer to minimize loss by facilitating a gradual descent resulting in more or less accurate predictions. GBMs are highly flexible and can handle a variety of statistics and complex relationships making them popular for regression and typing tasks in many fields.

However, the extremely low reception rates for simulated intelligence bundles, for example, stock control and client criticism examination propose that some PK stations might be in the beginning phases of computer-based intelligence reception or may confront novel limits in carrying out this innovation (Kumar, 2019).

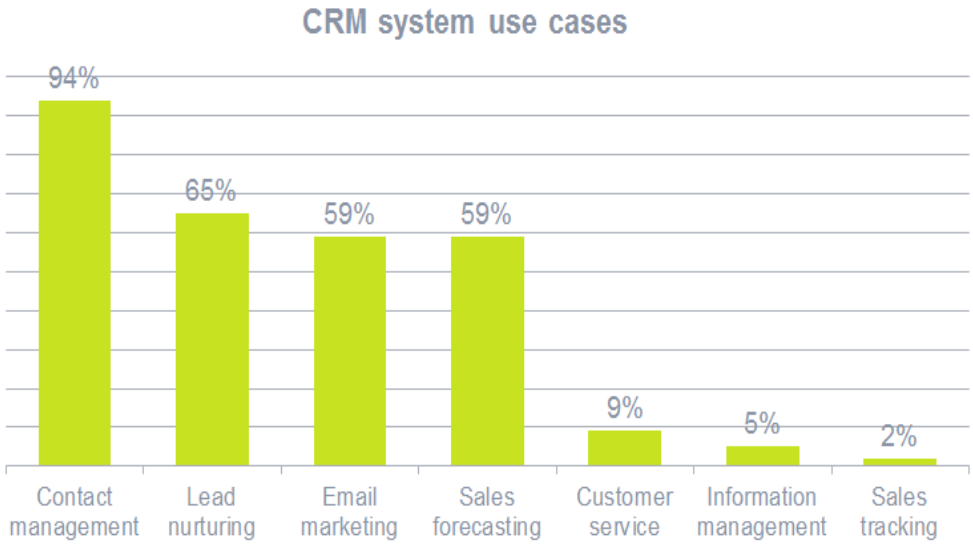

Figure 4 CRM practices

This examination features the significance of addressing security and factual assurance issues in endeavors to coordinate man-made intelligence. As client information turns out to be progressively advanced and man-made intelligence-based CRM frameworks are executed guaranteeing the privacy and respectability of delicate data will turn out to be progressively significant (Figallo et al., 2002). PK salon organizations should focus on information security gauges and follow relevant guidelines to make understanding and trust between clients. One more significant exertion

distinguished in the examination is coordinating simulated intelligence frameworks with existing salon the board programming and work processes (Damlapinar, 2015). Numerous salons may likewise be depending on obsolete direction designs or innovation making the progress to an artificial intelligence-based CRM arrangement confounded and troublesome. To defeat these obstructions salon proprietors and supervisors need to characterize their cutting-edge structure via cautiously finding joining focuses and making a guide for smooth execution.

Teaching representatives and managing protection from change is critical to the effective execution of computer-based intelligence in PK salons. Workers might see man-made intelligence innovation as a danger to their positions or feel overpowered by the chance to learn new structures (Chiang, 2014). Salon proprietors and supervisors must proactively convey the advantages of computer-based intelligence execution give satisfactory training and backing and encourage a subculture of constant learning and development in their business.

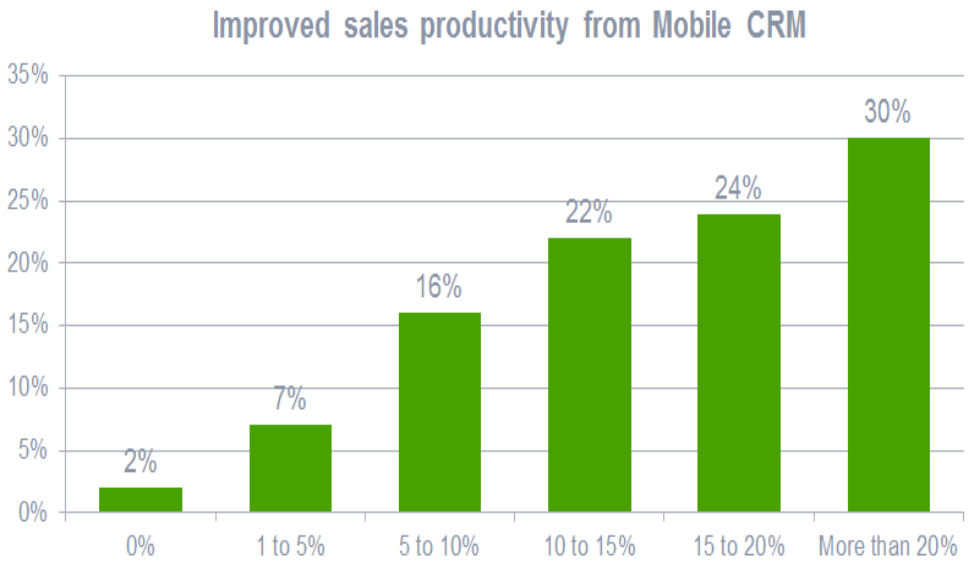

Figure 5 Uses of CRM

Subjective bits of knowledge accumulated from meetings and studies give significant points of view on the ideal effects of simulated intelligence-based CRM frameworks in PK salons (Buttle et al., 2019). Members communicated specific energy for man-made reasoning advances that have worked on the effectiveness of arrangement booking and personalization of advertising efforts.

The discoveries support the capability of computer-based intelligence fueled CRM designs to reform salon the board rehearses close to PK. By settling difficulties, for example, charging record security staff preparation and specialized information salons can bridle the force of computer-based intelligence innovation to enhance business tasks further develop associations with purchasers and gain an upper hand on the lookout (Brink et al., 2008).

A cooperative exertion among partners is important to conquer hindrances and establish a climate helpful for artificial intelligence development in the salon business.

CONCLUSION

This exploration paper uncovers the groundbreaking capability of computer-based intelligence fueled client relationship the board (CRM) frameworks in PK salon the executives. Through an exhaustive investigation of functional and practicality prerequisites plainly computer-based intelligence innovation can carry huge advantages to smooth out tasks increment client commitment and gain an upper hand for salon organizations.

Notwithstanding the difficult expense real factors of security concerns and labor force preparation proactive advances can be taken to defeat these hindrances and influence artificial intelligence.

Salon organizations around PK can outfit the force of artificial intelligence to enhance execution and convey a superior client experience by putting resources into tutoring and improvement and teaming up with partners to cultivate a practice of development.

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