Advent of Artificial Intelligence and its Impact on Top Leading Commercial Banks in India – Case Study

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ABSTRACT

Technology has changed the organizations are done and in the course of the last couple of years. Sector-wise, innovation is riding the pony of fortune and managing organizations to productive development, effortlessly. There is a developing need to utilize Artificial Intelligence (AI) and the Indian banking Sector is steadily moving itself towards utilizing AI. On the off chance that one discusses about the banking segment, the reception has been continuous, when contrasted with different areas. This can be expected to the reality that banking is as yet a labor driven part, with tasks that require human inclusion. Yet the Indian Banking part comprehends the need to chop down expense and the consumption on excess errands. The Indian financial area is investigating the ways by which it can saddle the intensity of AI to improve the procedures and upgrade the Customer Service in the long run. The paper looks to investigate the regions where the AI is being utilized in the Banking Sector what’s more, its suggestion in the top banks in India.

Keywords: Artificial Intelligence, Customer Service, Banking Activities, AI Applications

INTRODUCTION

The transformation in the development of IT have deep changes in Social Communication, AI and Big Data Analysis. To Understand the fluctuating Banking in this scenario is very challenging. Banks today can’t afford to be complacent. The competitive advantage in the present changed as to be re-evaluated in the light of IT drive and Competitive Pressure in Technology. There is a need and necessary

SCOPE OF THE STUDY

The Indian banking sector is exploring the ways by which it can harness the power of AI to improve the processes and enhance the Customer Service in the long run. The paper seeks to explore the areas where the AI application is being used in the Banking Sector and its implication in the leading banks in India and also to understands the need to cut down cost and the expenditure on redundant tasks.

NEED FOR THE STUDY

AI is not new to India. Research institutions and universities have been working with various AI technologies for decades, and especially in the banking sector. With enabling technologies becoming a lot more accessible and inexpensive, AI is now becoming mainstream, with large enterprises and start-ups looking at different opportunities. Our research study shows that the adoption of AI in banking has the potential to add nearly $1 trillion to the Indian economy in 2035. AI adoption is still in its nascent stages, and a lot more needs to be done to realise its full potential.

OBJECTIVES

1. To identify the opportunities and challenges in Banking Sector with reference to implementation of Artificial Intelligence.
2. To study about the applications of AI in use in the leading commercial banks in India: State Bank of India, HDFC, ICICI and Axis.

RESEARCH METHODOLOGY
I. Type of Research
The purpose of study will adopt Descriptive Survey and Exploratory Method of Research.

II. Sampling Technique
For the purpose of selecting the sample respondents and needed information for the study Judgmental Sampling will be employed.

III. Sample Size
To gain the in-depth knowledge on the topic 90 respondents would be selected as sample size.

One nationalized and three private banks are being utilizing the application of AI. Hence, these banks were considered for the study.

FINDINGS
From the case study of top leading Commercial banks which adopted AI applications in their banking activities have resulted in enamors changes. It is to be found that AI application is leading the Banking Sector and also helping to fulfill the customer demand faster and easier.

AI applications within banking sector include the following
1. Improving the customer experience
While trying to improve the client experience and set themselves apart, a large portion of the banks are building client driven societies with the progression of AI, Natural Language Processing, and subjective figuring. All these are significant for banks to satisfy clients, abstaining from holding up lines in the bank in the coming future.

2. Data based Artificial Intelligence applications
A large amount of data can be analyzed effectively with the help of applications installed in personal robots, end-user devices and the financial institution which also helps with projections, predictions and implementing customized financial advice. The financial plans and strategies can be acquired by these applications through research, about loans, rates, tracking the progress and also with customized investment opportunities.

3. Digital Wallets
Digital wallets are becoming the future of payment technologies with apps like Apple, PayPal, Google Tez, Paytm and others which are leaping on their on gateways. This reduces the dependency on the physical cash with boosting the reach of money to the higher levels.

4. Voice Assistance
Voice Assistance is prompting bit by bit blur off the physical nearness, as innovation is empowering the clients to utilize banking administrations with contact screens and voice directions. Intuitive Voice Response System (IVRS) helps in preparing demands so as to the appropriate response the inquiries, associating clients with different financial administrations and gives the required data. This diminishes blunders which utilized happen on account of the human.

APPLICATION OF AI IN THE COMMERCIAL BANKS
STATE BANK OF INDIA
SBI, which is India’s biggest bank with 420 million clients, is leaving on its AI venture from the perspective of the two workers and clients. To fuel its AI mission, this year, SBI propelled a national hackathon, “Code For Bank”. SBI is currently using an AI-based solution developed by Chapdex, the winning team from its first hackathon.

HDFC Bank
HDFC Bank has developed an AI-based chatbot, “Eva”, built by Bengaluru-based Senseforth AI Research. Since its launch in March this year, Eva (which stands Electronic Virtual Assistant) has addressed over 2.7 million customer queries, interacted with over 530,000 unique users, and held 1.2 million conversations.

ICICI BANK
ICICI Bank, India’s second-largest private sector bank has deployed software robotics in over 200 business processes across various functions of the company. ICICI seems to be referring to what is often referred to as “robotic software” – a kind of software generally focused on automating office work.

AXIS BANK
Axis Bank launched an AI & NLP (Natural Language Processing) enabled app, Conversational Banking, to help consumers with financial and non-financial transactions, answer FAQs and get in touch with the bank for loan other products.

CONCLUSION
A computerized boom is positively occurring over all fragments of industry particularly banking, particularly after demonetization. The customary banking has advanced and an ever increasing number of banks are embracing new advancements like AI, Cloud, square chain to chop down their working costs what’s more, improve proficiency. In spite of the fact that it is still in its early stage, banks are still at a stage of an man-made consciousness transformation. Improvement and advancement in the AI business, will increment efficiency at a decreased expense. Supervisors crosswise over ventures should raise their bet on range of abilities up degree. There is no uncertainty that ongoing push towards digitalization is quickly affecting the customary financial models. Nonetheless, it has likewise presented the organizations to expanding digital security dangers and vulnerabilities. The banks are progressively taking a gander at developing innovations, for example, blockchain and examination in making a functioning safeguard system against cybercrimes.

REFERENCES
A. BOOKS
[4] Life 3.0: Being Human in the Age of Artificial Intelligence - Max Tegmark
B. RESEARCH ARTICLES


WEBSITES

[1] https://www.livemint.com/AI/v0Nd6Xkv0nINDG4wQ2J0vK/Artificial-Intelligence-in-Indian-banking-Challenges-and-op.html

