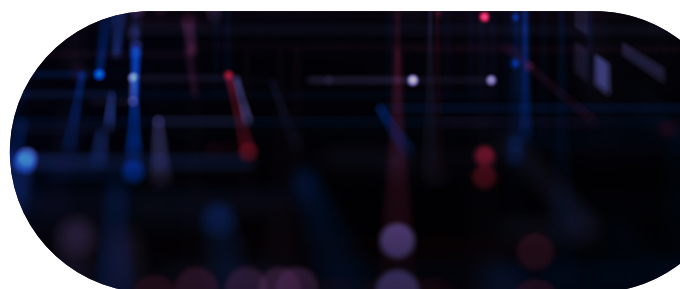
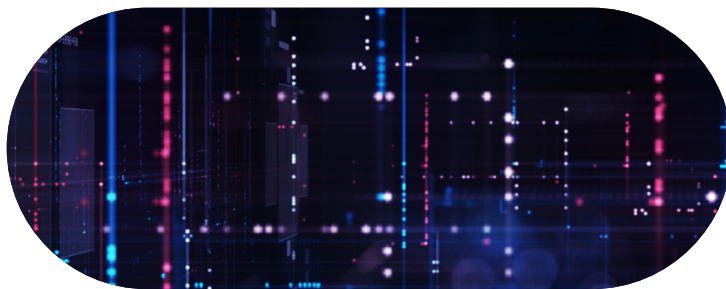


● Whitepaper

Revolutionizing Lending with Generative AI:

Can Disruptive AI be the game changer in lending services?



As Sundar Pichai, CEO of Google, once said, “AI is not a threat to traditional banking; it is a catalyst for its evolution.” We are witnessing the banking industry across the world facing several challenges due to the recent pandemic and ongoing economic downturn. This is accompanied by enhanced regulatory requirements, a race for better customer service, and an urgent need for a watertight risk management framework. To deal with this pressure, banks are heavily investing in artificial intelligence.

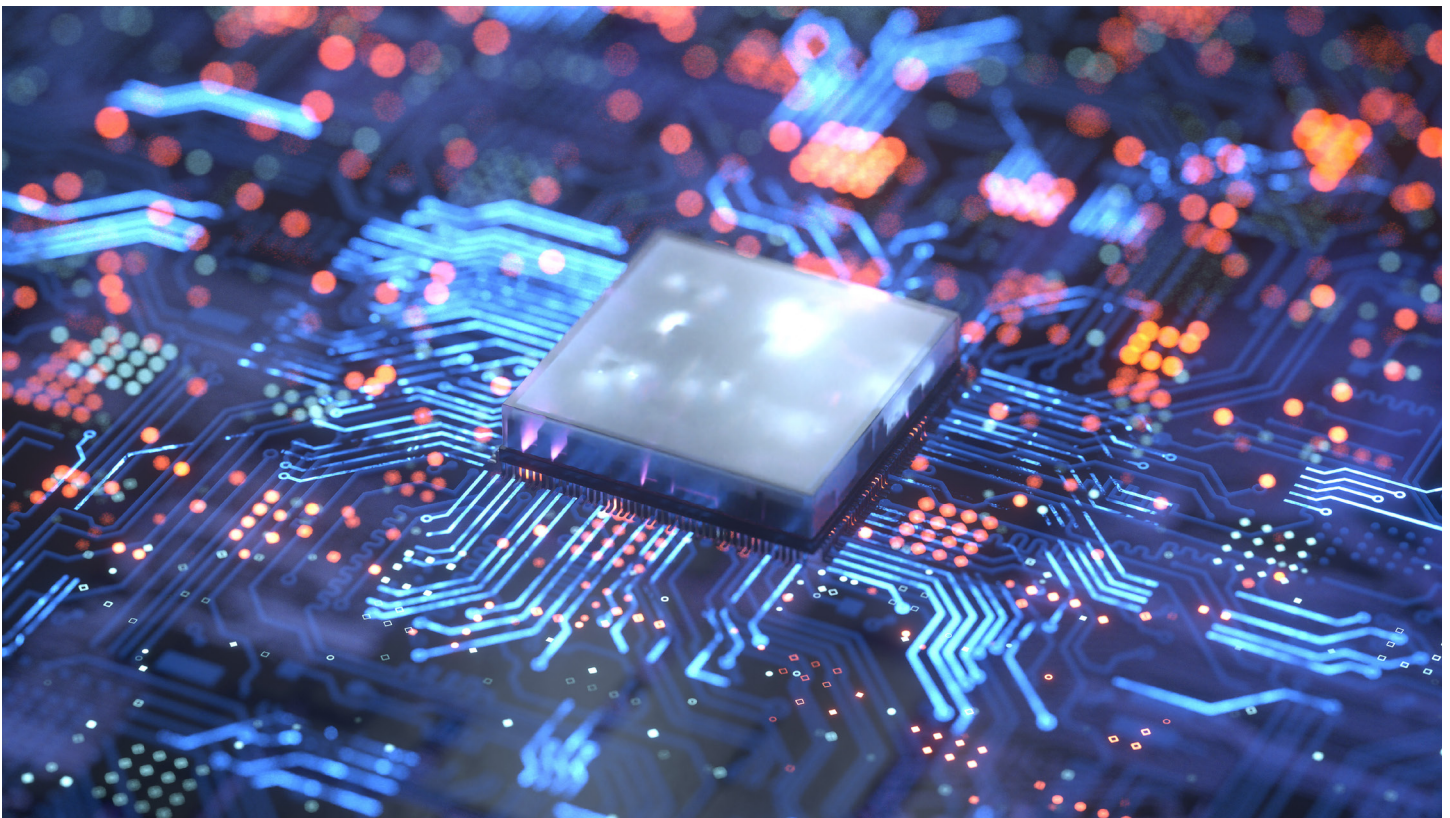
No one would disagree that we are officially in the Generative AI-powered digital age, which could provide multiple revenue-driven and cost-effective opportunities for banking and financial institutions. This is further amplified by enhanced internet connectivity, low-cost data storage platforms, and rapid advances in AI-driven technologies. These technologies can result in higher automation and, when deployed under a risk-controlled environment, can provide the capability for faster and risk-based credit decisioning and way better customer service.

One such AI platform that is creating a huge buzz, excitement, and anxiety in the financial world is “ChatGPT,” which seems to have the potential to disrupt the way we have been dealing with financial institutions.

What is ChatGPT, and how does it work?

ChatGPT was created by OpenAI, an AI and research company. The company launched ChatGPT on November 30th, 2022. ChatGPT is a natural language processing tool driven by AI technology that allows you to have human-like conversations and much more with a chatbot. The language model can answer questions and assist you with tasks such as composing emails, essays, and code.

OpenAI trained this model using Reinforcement Learning from Human Feedback (RLHF). In layman’s terms, this means that during its training, testers



were involved in scoring and selecting the best results in a reward/penalty mechanism.

Can generative AI be the game changer in lending services?

No one can deny that the financial services industry is going through immense pressure. Lenders deal with an incredibly high volume of data that needs to be processed in a short time frame and with high risk-based accuracy. Additionally, there are various other areas where financial institutions are struggling, such as:

1. Customer service: *Providing quality customer service is a major challenge for banks, as customers often have questions or issues that need to be addressed promptly. Long wait times, lack of availability of customer service representatives, and language barriers are some of the common customer service issues.*

2. Fraud and cybersecurity threats: *Banks are under constant threat from fraudsters and hackers who try to steal customer data or commit financial crimes. These threats can result in reputational damage, financial loss, and legal liability.*

3. Compliance and regulation: *Banks need to comply with various regulations and standards, which can be complex and time-consuming. Failure to comply with these regulations can result in hefty fines and legal penalties.*

4. Operational inefficiencies: *Banks often have complex and siloed systems that can lead to operational inefficiencies, such as redundant processes, errors, and delays.*

Banks have often been at the forefront of adopting cutting-edge technology to provide better customer service and meet compliance requirements. Chatbots are rapidly becoming

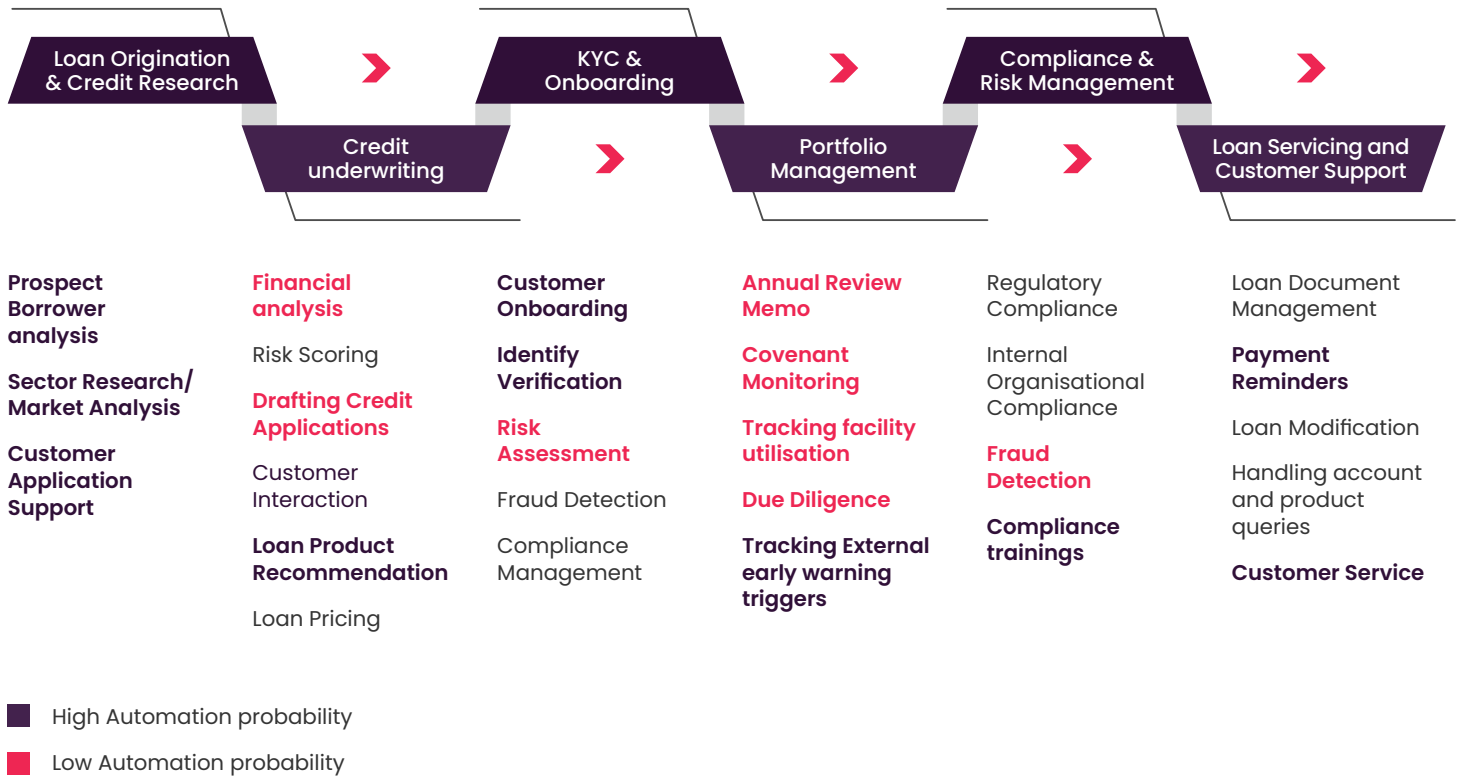
a popular means of communication between businesses and customers, and the financial industry is no exception. With the advent of AI-based chatbots, like ChatGPT, lending institutions can now leverage advanced technology to streamline their lending services. By offering 24/7 support, personalized assistance, and quick responses to customer queries, ChatGPT can revolutionize the lending industry, making it more efficient, accessible, and customer-friendly than ever before.

Evalueserve has been both building generative AI tools and extensively testing external solutions to keep in line with the evolving market dynamics. Based on our initial analysis, we have charted the overall impact of generative AI across the lending journey.



Potential Impact of Generative AI Across the Lending Journey

Generative AI can support in automating various steps across the lending life-cycle



The table above provides a comprehensive overview of the various areas where this tool can be useful for automation. Evalueserve has also identified specific areas where generative AI can be used for a quick win. However, it is important to note that this assessment is subjective and will undergo more rigorous testing and structured validation to ensure accurate data analysis.

Lending Life Cycle Stage	Use Case for Generative AI
Marketing/Lead Generation	Use Generative AI to interact with potential customers and gather information about their needs and preferences. Generative AI could also be used to provide personalized recommendations for loan products based on the customer's profile.
Loan Application	Generative AI can be used to guide customers through the loan application process, helping them fill out forms, and answering any questions they may have. Generative AI can also be used to verify customer information and identity by conducting a natural language conversation.
Credit Analysis	<p>Generative AI can potentially support credit analysts to analyze customer credit scores and financial history to determine whether they are a good candidate for a loan. Generative AI can also help assess the risk level of a loan application by analyzing data from various sources.</p> <ul style="list-style-type: none"> • Risk Assessment – Analyze borrower's credit reports, income statements, tax returns, and other financial data to assess their credit risk • Loan decision-making: Specifically for retail and small ticket size loans, Generative AI can use its data analysis to provide real-time loan decision-making, thereby reducing the time and costs associated with traditional processes. • Loan monitoring: Generative AI can monitor loan performance by analyzing bank statements and account coursing to identify potential risks or fraud. It can analyze borrower behavior to detect changes in financial circumstances that may indicate a risk of default or delinquency.
Loan Underwriting	<p>Generative AI can be used to assist loan underwriters in the decision-making process by analyzing customer data and providing recommendations based on risk assessment. Specifically, Generative AI can be used to automate certain sections of credit memos such as:</p> <ul style="list-style-type: none"> • Executive summary • Business description • Historical financial high-level analysis • External risk rating analysis & news tracking • Sector analysis, etc.
Loan Servicing	Generative AI can be used to assist borrowers with loan servicing issues, such as payment reminders, billing inquiries, and account management. Generative AI can also be used to provide personalized recommendations for loan repayment based on the borrower's financial history and behavior.

Debt Collection

Generative AI can be used to assist in debt collection efforts by interacting with borrowers and providing options for repayment or settlement. Generative AI can also help identify patterns of delinquency and recommend appropriate collection strategies.

Limitations of Generative AI:

While generative AI can be a considerable resource for the banking industry, there are certain drawbacks that banks should watch out for:

1. Accuracy of Data Analysis: One of the areas that require significant testing is the accuracy of the data analysis of basic financial ratios. ChatGPT states that financial and relevant information analysis can be done; however, initial testing suggests inaccuracies. Therefore, this needs further testing, and any errors need to be addressed

2. Cost: The cost of implementing generative AI into a banking system may be substantial. Banks must consider how much it would cost to integrate, train, and deploy, maintain ongoing operational costs, and keep up with regulatory costs. generative AI is a great resource, but it might not be accessible to smaller banks with a tighter budget.

3. Data Security: The creators of generative AI have taken immense measures to ensure the security and privacy of its users. However, banks need to take their own course of action to safeguard the security of their users. Considering that lenders deal with sensitive borrowers information and MNPI, this can be seen as an extra task and source of worry for banks, making the process less efficient.

4. Limited Human Interaction: While automation certainly has its perks, it does reduce the need for human labor. For people who prefer to speak with a human, it can be frustrating to go through many steps with artificial intelligence until the system allows them through. In addition, the implementation of AI means less need for humans, making the job market that much smaller.

5. Technology Dependence: Technology is an

incredible tool, but there is never a complete substitute for humans. The reliance on generative AI can lead to dependencies that might cause oversight and blind decision-making that could result in mistakes on the bank's part.

Summary

The progressive implementation of generative AI in lending services has created an urgent need for most banks to have a robust AI compliance regime in place. However, domain expertise is required for domain-specific organizational data, knowledge, and methodologies processed by AI technology, as gaps in the accuracy of data analysis can occur. Evalueserve can partner with clients to deliver robust credit research and test advanced AI solutions to meet their specific business needs, leveraging its domain expertise in portfolio monitoring, credit underwriting, risk management, and more. Our team of experts helps clients develop tailor-made solutions that could improve their decision-making, automate repetitive tasks, drive innovation, expand their revenue streams, and gain a competitive edge in the marketplace. Evalueserve has been providing the best solutions to multiple lending institutions with a Mind + Machine approach, which involves product-led solutions coupled with thoughtfully curated lending services. Evalueserve's expertise helps lenders streamline portfolio monitoring with end-to-end solutions, including:

- Underwriting analysis and risk assessment
- Periodic reviews
- Covenant & condition of sanction monitoring
- Pre-closing audit and quality control
- Early warning triggers

About Evalueserve

Evalueserve combines insights emerging from data and research with the efficiency of digital tools and platforms to design impactful solutions. A global team of 4,000+ experts collaborates with clients across 15+ industries. Evalueserve's Corporate and Investment Banking practice works with bulge bracket banks, commercial banks and boutique advisory firms. Our key practice areas include Sector and Product support, Lending & Credit support, Business Information / Library Services, Presentation Support services and Business Reporting. Our proprietary technology platform helps streamline and automate workflows, re-use work products through knowledge management and automate repetitive tasks. For more information, please visit: <https://www.evalueserve.com/industry/financial-services>

Connect with us on [LinkedIn](#)

About Lending Services

The corporate and commercial banking industries are undergoing seismic changes due to increased competition, reduced net-interest margins, fintech's growing market share, the need to adopt new technology, and ever-increasing regulatory requirements. It is imperative that banks re-evaluate their operating models to keep pace with the changing environment. With over 10 years of domain experience, Evalueserve is a leader in the transformation of banking operations. Clients across the entire value chain were able to find solutions to the above challenges with our help through our focus on digitalization, process re-engineering, insightful customer analytics, operational flexibility, and customized solutions. We support major banks globally and have delivered significant cost and time savings via our proprietary Credit Review Automation Suite, including our automated spreading tool, Spreadsmart, which makes the credit approval cycle more efficient

Evalueserve Disclaimer

The information contained in this report has been obtained from reliable sources. The output is in accordance with the information available on such sources and has been carried out to the best of our knowledge with utmost care and precision. While Evalueserve has no reason to believe that there is any inaccuracy or defect in such information, Evalueserve disclaims all warranties, expressed or implied, including warranties of accuracy, completeness, correctness, adequacy, merchantability and / or fitness of the information.

**Vivek Sharma**

Vice President, Corporate and Investment Banking LoB

Vivek has over 17 years of experience in setting up offshore support teams for global investment banks and managing delivery.

**Nishant Sehgal**

Associate Director, Corporate and Investment Banking LoB

Nishant has over 13 years of experience in Corporate and Commercial Credit risk function across multiple banks.

**Vyas Pandey**

Associate Director, Corporate and Investment Banking LoB

Vyas has over 15 years of experience in managing teams across Corporate and Commercial Banking divisions.

**Ena Monga**

Senior Manager, Corporate and Investment Banking LoB

Ena has over 13 years of experience in managing teams across Corporate and Commercial Banking divisions.