



Artificial Intelligence for Banking: Unlocking the Future of Financial Services





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01

Introduction

In recent years, a major technological revolution has taken place that has radically transformed the operations of the banking sector. The main reason for this development is that AI has established itself as a disruptive force in the financial industry, thus unlocking a considerable number of unprecedented opportunities and possibilities.

AI has gone from an idea of the future to a tangible reality driving growth and innovation in financial services. Such technology has proven its remarkable ability to improve operational efficiency, optimize decision-making, and deliver personalized customer experiences.

For this reason, we will provide a practical guide for banking professionals to gain an in-depth understanding of the impact of AI and how they can make the most of its potential. So whether you're an executive, a data analyst, or an entrepreneur, you'll get a clear and concise view of how you can leverage this technology.

Get ready to explore the endless possibilities AI has to offer!



Understanding AI in banking

Definition of artificial intelligence and its key components

Artificial Intelligence (IA) refers to the ability of machines to exhibit characteristics and perform tasks that generally require human assistance. This field of study seeks to develop computer systems and programs capable of simulating and automating cognitive and perceptual functions that humans have, such as learning, reasoning, understanding natural language, decision-making, and problem-solving.

AI is based on the fact that machines can process large amounts of data and use advanced mathematical algorithms and models to learn from the data collected and improve their performance over time. Such readiness is achieved by applying supervised, unsupervised, and reinforcement learning.

This technology has several components that enable machines to perform complex tasks, learn from experience, and adapt to different situations. These components are mentioned below:

Machine learning (ML), developing algorithms that allow machines to learn their performance through experience. Machine learning models can train themselves with data analysis to recognize patterns, make predictions, and make informed decisions.

Artificial neural networks (ANN), are a specific approach to machine learning that focuses on the workings of the human brain. Such networks are composed of interconnected nodes called “neurons,” responsible for processing and transmitting the information. Artificial neural networks are used in tasks such as image recognition, natural language processing, and decision-making.

Natural language processing (NLP), is focused on interactions between computers and human language. NLP allows machines to understand, interpret, and generate human language effectively. This process includes machine translation, sentiment analysis, text generation, and spoken language understanding.

Computer Vision is an area of AI dedicated to processing and analyzing images and videos. Computer vision systems can recognize objects, faces, gestures, and other visual elements, allowing them to understand and extract useful information from images.

Reasoning and decision making, The ability to reason and make an informed decision is fundamental to AI. AI systems can use logical reasoning algorithms based on rules or probabilistic inference techniques to evaluate information, reach conclusions, and make decisions.

Robotics and automation, AI is also implemented in robotics and automation, where intelligent systems can control and operate robots and machines to perform physical and repetitive tasks autonomously.

Exploring the various applications of AI in banking

AI has multiple applications within the banking industry, which is why it has revolutionized how financial institutions operate and provide customer services. Some of the main applications are:

Fraud detection, AI can analyze volumes of financial data and transactions in real-time, identify suspicious patterns, and detect fraudulent activities, thus providing greater security and protection for customers and banking entities.

Virtual assistants and chatbots, these functions can offer 24/7 customer support and attention, answering their questions and providing them with all the information they need to solve their problems promptly. Chatbots can interact with customers through messaging applications to provide them with personalized financial advice.

Risk and credit analysis, AI can analyze financial data, credit histories, and other key factors to assess applicants' credit risk and make quick and informed decisions for loan and credit approval. Process automation, AI can facilitate the completion of routine tasks and processes such as document processing, account reconciliation, and financial reporting by automating them, thereby improving operational efficiency and reducing human error.

Personalizing services, artificial intelligence analyzes customer data, including their preferences and behaviors, to provide personalized services and recommendations, such as financial product offerings tailored to their needs and goals.



Implementation of AI in banking

3.1 Critical considerations for the successful implementation of AI in banking institutions

For implementing artificial intelligence in the banking sector, it is essential to carry out planning and consider several key aspects. Below are some important considerations to take into account:

Define clear objectives: before implementing AI in banks, it is necessary to set clear and measurable objectives. Identifying how AI can add value to the banking institution by improving operational efficiency, optimizing the customer experience, or reducing risks is necessary. In this way, efforts can be focused on the desired results. **Access to quality data:** AI is data-driven and requires high-quality, well-structured data. This requires a robust data management strategy to ensure data availability and integrity for training and running AI models.

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Collaborative culture: Implementing AI requires close collaboration between technical teams and the financial institution. This requires fostering a culture of collaboration and facilitating communication between these areas to ensure a more effective implementation.

Regulatory and ethical compliance: AI in banking must operate within established regulatory and ethical frameworks. To this end, it is crucial to ensure data privacy and security and to address ethical considerations in using AI, as well as transparency in automated decision-making and fairness in outcomes.

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3.2 Building the necessary infrastructure and data capabilities

Forming a robust infrastructure and adequate data capabilities is crucial to successfully implementing artificial intelligence (AI) in banking institutions. Here are some key aspects to consider:

Data storage and management: a secure data storage infrastructure is necessary to handle large volumes of data. Thus, storage systems can be implemented in the cloud or on local servers, appropriate to the requirements and policies of the banking institution. In addition, effective data management practices have to be established, including collecting, storing, cleansing, and integrating data from various sources.

Data quality and governance, ensuring data quality is critical to obtaining accurate results from AI systems, and the banking institution must establish processes and controls to ensure data integrity, accuracy, and consistency. This can be done by implementing data quality policies and standards, performing periodic testing and validation, and implementing feedback mechanisms to correct and improve data quality.

Integration of systems and data sources, the AI implementation data will likely be in different systems and sources. For that reason, it is necessary to have data integration capabilities that allow the efficient extraction, transformation, and loading of data, such as internal systems, external sources, and data providers. This way, access to the information needed to train and feed AI models can be guaranteed.

Data preparation and feature engineering, to be able to use data in AI models, it is essential to pre-process and prepare them properly. This involves handling missing values, normalizing variables, choosing relevant features, and training new features from existing data. In these stages, data quality must be guaranteed, and the efficiency and accuracy of AI models must be improved.

Data security and privacy, Data protection is fundamental to the banking environment, so robust security measures, as well as privacy regulations, must be implemented. The measures include data encryption, controlled access to data, penetration testing, and implementation of security policies.

Computing infrastructure and scalability, the use of AI requires an adequate computing infrastructure to be able to train and run artificial intelligence models. This requires investing in computational resources, such as high-performance servers or cloud services that provide the necessary scalability to manage variable workloads.

Talent and skills, having trained and experienced staff to handle data and implement AI is crucial because it involves hiring data scientists, data engineers, and analysts with AI expertise, as well as in-house training to develop skills in the existing team. This way, you can ensure the correct data infrastructure implementation and the effective use of AI capabilities.



3.3 Overcoming challenges and managing cultural change toward AI adoption

Adopting artificial intelligence (AI) in banking institutions can represent a great challenge because it requires a significant cultural change. To overcome these challenges, there are some key aspects to consider:

Understanding and education, bank leaders and employees must understand the basic concepts of AI, its benefits, and how it can be applied in the financial sector. This requires education and training on AI to eliminate fear and resistance to change and to foster an open and receptive mindset toward the technology.

Clear communication, is a crucial aspect of managing change, as it allows for precise and transparent communication of the objectives of AI adoption, its benefits, and its impact on role adoption and responsibilities. Employees can voice their concerns to be addressed appropriately by achieving regular, two-way communication.

Participation and collaboration, involving employees in the AI adoption process are necessary to foster a sense of ownership and commitment. This should be done by encouraging their active participation by defining AI solutions that can build trust and increase acceptance of the technology in the bank.

Incremental change management, adopting an incremental approach to AI implementation is necessary, starting with pilot projects or specific use cases to obtain concrete results and experiences. As successes are achieved and positive results are generated, it is possible to expand AI adoption in different areas gradually.

Reskilling and resource reallocation, AI implementation requires identifying existing skills gaps and providing reskilling programs to help employees acquire the skills to work collaboratively with the technology.

Managing expectations, AI can transform many areas in banks, but it is crucial to manage expectations realistically by recognizing the benefits and limitations of AI. Getting expectation management right can support confidence in the technology and ensure a balanced approach to its implementation.

Ethics, accountability, transparent policies, and ethical frameworks must be established to adopt AI in banking institutions. Therefore, fairness in automated decisions, algorithm transparency, and customer privacy protection must be considered.



AI-driven customer experience

4.1 Personalized banking services through chatbots and virtual assistants powered by AI

AI has improved banks' customer interactions by offering personalized services through chatbots and virtual assistants. Such tools can understand and respond to customer queries and requests quickly and efficiently, providing them with a satisfactory customer service experience. Some of the key benefits of their implementation are:

24/7 customer service, AI-powered chatbots, and virtual assistants are available 24/7 so that customers can get immediate answers at any time without waiting for the availability of a human agent.

Fast and accurate answers, the tools implement natural language processing and machine learning to understand and analyze customer queries. They can thus provide accurate and relevant answers, even in natural language, improving efficiency and customer satisfaction.

Service personalization, chatbots and virtual assistants can access customer data and use it to deliver personalized services. This way, they can provide information on account balance and transaction history and recommend financial products tailored to each customer's needs.

Task automation: such tools can perform various transactional tasks, such as fund transfers, bill payments, and loan applications, without the intervention of a human agent to streamline processes and provide a more convenient user experience.

"When it comes to the client's journey, AI has elevated the personal touch in finance. AI technology adeptly interprets customer actions, preferences, and historical transactions to provide more refined suggestions and customized services. This not only enhances customer satisfaction but also contributes to the retention of loyal clients over an extended period, fostering long-term relationships."

- **Mónica Rodríguez Calvache**, Data Science Leader at Pragma

4.2 Improving customer engagement with speech recognition and sentiment analysis

AI also makes it possible to improve customer engagement with banks by using technologies such as voice recognition and sentiment analysis. Some examples of how AI is used in this context include:

Voice recognition, AI-powered voice recognition systems allow customers to interact with banking services using voice commands instead of typing or manually entering information. This makes transactions and queries easier and faster and improves the customer experience.

Sentiment analysis, AI can analyze customer language and interactions to understand and assess user emotions. In this way, banks can identify customer satisfaction, detect problems or concerns, and take action to address them, thereby improving customer relationships and customer loyalty.

Personalization of offers: AI-enabled systems analyze customers' particular preferences and needs to provide banks' customers with personalized financial products and services, investment recommendations, and promotional offers. In this way, they can increase the relevance and perceived value of banking services.



05

Risk management and fraud detection

5.1 Leveraging AI algorithms for real-time fraud detection and prevention

Implementing AI algorithms to detect and prevent real-time fraud is vital in banking institutions. Because it allows for analyzing large volumes of transaction data, identifying suspicious patterns, and detecting anomalies that may indicate fraudulent activities, some important aspects to consider in this area are:

Supervised machine learning, AI algorithms use supervised machine learning techniques to train on historical data labeled as legitimate or fraudulent transactions to recognize patterns and characteristics associated with fraud.

In real-time monitoring, AI can analyze transactions in real-time and compare them with previously identified patterns and patterns, and based on this, it detects suspicious activity early and takes immediate preventive measures.

Multi-variable analysis, AI algorithms can analyze multiple variables and transaction characteristics, such as geographic location, historical customer behavior, spending patterns, and transaction types. In this way, they can identify red flags and assess the level of risk associated with a specific transaction.

Adaptability and continuous updating, AI can adapt and learn from new fraud patterns as fraudsters' tactics evolve. They can constantly update themselves as they gather new information and identify new fraud techniques, thus improving detection and prevention capabilities.

Reduced false positives, AI-powered fraud detection systems can reduce false positives by improving accuracy in identifying fraudulent activity. In this way, they minimize inconvenience to legitimate customers by reducing blocked transactions or additional verification requests.

Sophisticated fraud detection: Artificial intelligence can prevent sophisticated frauds that go undetected under traditional methods. Because algorithms can identify complex patterns and hidden relationships between transactions, improving the ability to detect more elaborate, low-frequency fraud.

5.2 Machine Learning for credit risk assessment

AI and ML algorithms can be critical instruments for risk management, especially credit risk, because these tools can quickly process, analyze, and segment a large set of financial data, streamlining informed decision-making based on facts. This enables financial institutions to understand the financial landscape of customers, detect patterns in their consumption and income, determine creditworthiness, and thus automate credit scoring.

AI-based tools can track credit risk in real-time, make an automated assessment of borrower profiles, detect sudden changes in customers' payment behavior, and analyze and predict whether debt becomes uncollectible, taking into account credit history, consumption volume, and payment dates, among other factors, to help mitigate losses.

5.3 Anti-Money Laundering (AML) and Know Your Customer (KYC) AI Compliance

AI can facilitate the fight against money laundering, one of the most complex problems due to the emerging new forms of money laundering and the increasingly onerous new regulations to combat them, and to which banks must adjust.

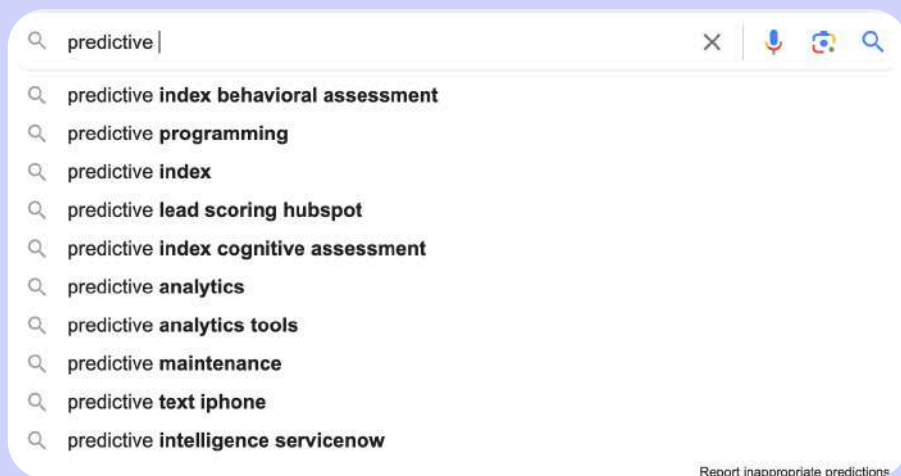
Algorithms can detect patterns by analyzing fundamental variables such as the frequency of a client's deposits, the amounts, the addresses from which they come, and the recipients, and to see hidden links more cost-effectively.

AI allows 24/7 monitoring and analysis of transactions automatically, thus reducing the human burden, limiting the margin of human error, false positives, and even the possibility of corruption, as well as increasing productivity in analysis since a team does not get tired and does not take vacations.

A big plus is that AI learns by itself as it processes data; it becomes more and more expert in analyzing data faster and faster, configured for compliance with regulatory parameters; this has the benefit that even when AML compliance standards increase, the workflow does not stop, no bottlenecks are generated, but that speed does not detract from efficiency, as it makes a critical investigation of the variables.

5.4 How does it do this analysis?

Natural language processing: this allows for optimal prediction of words in a sentence, search results, and order tracking. It simplifies AML program compliance, as institutions can segment and group customer names, entities, or addresses to narrow down the results of operations.



Network analysis allows a client's information and his family or people in his close environment with whom he frequently makes transactions.

Predictive analysis: This helps determine the possibility of something happening in the future; it studies recent activity to see if there is a possibility of fraud or money laundering.



Data analysis and decision-making

The optimization of decision-making through the use of AI-based tools is generated through advanced processing of the banking institution's data, in which, without the participation of humans on the scene, AI manages to analyze, segment, and quantify to make accurate predictions of events, errors, delays, bottlenecks, raw material shortages, cost increases, insolvencies, etc.

AI enhances the detection of irregularities or anomalies in the life cycle of the business organization through a complex analysis that allows it to provide trends in patterns so that, based on the probability of occurrence, efforts and resources are focused on correcting the anomalies.

Let's try to illustrate how this decision-making process would work:

- It would start with the data set from customers, suppliers, partners, regulators, etc.
- These are taken by the AI that examines and detects possible events to occur.
- At this point, human judgment comes into play, where the information provided by the AI is compared with the information it appreciates from the outside to see if the analysis is consistent.
- Finally, business decisions are made based on facts.

6.1 Three ways in which AI enhances decision-making for a bank

1. Support informed decisions: in this case, they provide deep views, predictive analytics, and descriptive diagnostics of the current landscape so that human intelligence based on that data makes the best decision.

2. Significant decisions: In this case, it is not only predictive but also prescriptive analytics in which, in addition to the characteristics of the current landscape and trends, AI also offers suggestions and possibilities. AI reduces the complexity of analyzing massive amounts of data to arrive at a solution.

3. Automated decision making this not real-time predictive and prescriptive analytics offers speed, ease, and consistency in decision making, as it has systematic knowledge, links unclear causes and effects, and builds data collection models, trains itself to know which are essential to the organization's functioning and categorize them. It then detects a problem and automatically implements a solution measure, usually when they are less complex cases.

6.2 Optimizing resource allocation and workforce productivity through AI-powered insights

Productivity refers to the number of tasks a person can complete in a period, so we are talking about quantity and the quality of the work.

According to a study by the Nielsen Group, [AI boosts employee productivity by 66%](#). However, the data collected indicates that the greatest beneficiaries are the least qualified workers, as it allows them to improve the quality of their services in performing their tasks.

The three tasks AI stands out for are establishing KYC mechanisms, automating the onboarding process, and improving customer service, as mentioned above about customer experience. It also simplifies document management, automating repetitive tasks, such as drafting routine documents, and even creating other tools to streamline activities.

According to the results, incorporating AI-based tools works for financial institutions; users use AI more efficiently. For those working in customer service, [customer inquiries improved by 13.8% per hour](#).

For document management and drafting workers, they increased the number of documents they could analyze and draft by 59%. To put this in context and see how significant this percentage is, according to the Bureau of Labor Statistics, before the COVID-19 pandemic (2007-2009), [the annual productivity increase was 1.4% per year](#), that 66% represents how much value workers can create to drive the operation of the institution.



AI in banks: implementation cases

AI has changed the dynamics of banking processes to make them faster, more automated, and more efficient, so more and more financial institutions are including it in their internal processes.

[AI in the banking sector is expected to grow, reaching \\$64.03 billion by 2030.](#)

We previously mentioned the possible use cases, from customer service automation, centralization of information, anti-fraud mechanisms, credit risk management, implementation of AML programs, threat mitigation, etc.

This need to transform traditional banking obeys the behavior of the new generations who prefer automated, accessible, and available 24/7 banking. Millennials and Generation Z prefer to manage all operations from their mobile or computer; they expect immediate answers, and chatbots and virtual assistants manage to meet that need.

Even verification processes AI has managed to empower, such as biometric recognition for the onboarding process and secure access to accounts, make the customer experience more comfortable.

Let's look at some cases of banks that have embraced AI to improve customer experience:

7.1 Ally Financial

One of Michigan's most iconic banks, with over 100 years of existence, incorporates machine learning algorithms in its mobile banking app that allows customers to ask a chatbot questions about their doubts, verify payments, request account statements, and more. One of the significant innovations is text and voice input to communicate needs to the chatbot.

7.2 Capital One

This bank has a virtual assistant called ENO that guides users through the mobile application; they can make queries, perform tasks such as automated payments to their cards or services, check balances, verify operations, and even issue alerts of anomalies and possible fraud. The chatbot uses friendly language through texts and even uses emojis.

7.3 Other examples of banking AI that focused on fraud detection

FIS optimizes KYC processes to capture and digitize real-time financial information and compliance expectations.

Ayasdi: Used by renowned banks such as Scotiabank and Intensa Sapaolo group, which improved the segmentation of essential data to detect and alert natural anomalies and reduce the number of false positives.

DataVisor, which categorizes account and transaction data to mitigate the effects of fraud and money laundering, has helped prevent the loss of more than \$15 million to institutions, according to its creators.

The future of AI in banking

According to an analysis by Forbes magazine, these are the three future trends in the use of AI in the banking industry:

Increase in the number of banks that will adopt AI-based tools to raise the institution's competitiveness; [financial institutions are expected to raise their annual productivity by 30%](#). The data structure and processing models [AI offers could increase revenues by 6% over three years](#). However, this will require the interaction of trained staff and customers who can nurture AI.

New forms of risk will emerge, and this is because, beyond the great potential these tools offer, they also open up new entry points for cybercriminals to exploit. According to a survey, 72% of executives believe risk management is done half-heartedly, as they fail to predict the new scenarios AI brings.

Looking ahead, the future is even brighter for AI in banking. Advances in natural language processing, machine learning, and predictive analytics will further refine and expand the capabilities of AI systems.

Financial institutions will continue to leverage AI to create seamless and personalized experiences, improve cybersecurity measures, and promote financial inclusion.



Empower Your Workforce, Improve Client Service: a Case Study on Pragma's AI Solutions

Pragma takes pride in its extensive experience crafting industry-leading solutions for companies in financial and banking-related sectors.

In this case study, we delve into the successful implementation of an intelligent portfolio system for a major insurance company, showcasing the transformative power of AI in revolutionizing information accessibility and utility.

This project transcended mere data storage, aiming to empower employees with intuitive access and in-depth analysis capabilities.

→ **Challenge: Streamlining Access to Dynamic Product Information**

Our collaboration with a leading insurance company in the Dominican Republic stemmed from a shared objective: to empower their employees with a cutting-edge information system. Their extensive product portfolio, with frequent updates, demanded a more efficient data storage, retrieval, and analysis approach.

We envisioned a solution that went beyond simply storing information. We aimed to create an “intelligent portfolio system” that provided real-time insights, intuitive access, and in-depth analysis capabilities. Ultimately, this system paved the way for the development of an AI-powered chatbot, **revolutionizing how employees interact with product information.**

→ **Building the Foundation: Secure and Organized Data Storage**

The first step involved securely storing all critical documents in a designated area within Azure Blob Storage. This ensured the information’s safety and scalability and laid the groundwork for easier access and controlled management of the data. To further enhance the project, we employed form identification tools. These tools automatically categorize and store each document based on its content, keeping everything organized in its dedicated space. We also developed automatic indexing processes to seamlessly handle newly added information and any updates made to existing data. This ensured that everything remained consistently categorized and readily searchable.

→ **Building the AI Engine and User Interface**

With the data foundation laid, we leveraged the power of Azure OpenAI. We meticulously chose and deployed advanced AI models within this framework. These models were fine-tuned and tested to understand information intelligently and shape how users interact with the system.

A critical step involved integrating a text embedding model. This allowed us to perform “vector searches,” where machine learning analyzes information meaning and context, converting it into a numerical code. This code enabled the AI to process and understand each data point, leading to highly relevant and accurate responses to complex user queries in natural language.

As a first step, we built a basic bot using Python's versatility. This prototype demonstrated potential and paved the way for a more user-friendly tool. It underwent initial testing to assess user interactions and response behavior. Though basic, it was a crucial stepping stone towards our ultimate goal.

To significantly enhance user experience, we transitioned to the Azure Chat Solution Accelerator powered by Azure OpenAI services. This move brought significant improvements in functionality, aesthetics, and adaptability.

The Chat Solution Accelerator allowed us to integrate advanced features like contextual conversation management, a more professional brand identity, and deeper access to archived knowledge. Additionally, it enabled users to utilize threads and historical data across different databases and even upload documents for on-the-fly information extraction within the chat.

The End Result: Empowering Users and Streamlining Operations

The final product – an intuitive and efficient chatbot – completely transformed the user experience. Through an attractive interface, employees can now get fast, accurate answers to even complex questions. This gives them **immediate access to all the crucial, reliable, and in-depth information they need.**

However, the benefits extend beyond user experience. This intelligent portfolio system has become a powerful business tool as well. Not only does it provide real-time insights into current product offerings, but its scope has expanded to encompass a broader range of critical knowledge, including regulations and policies. **This newfound ability to deliver swift and accurate answers to inquiries has fostered a new company culture where staying informed about products and conditions is easier than ever.**

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Conclusion

Adopting Artificial Intelligence (AI) in the banking industry significantly influences how financial institutions operate and serve customers. Enabling banks to offer personalized services, optimize processes, and make data-driven decisions more accurately and efficiently.

Customers can enjoy 24/7 support and customized recommendations through AI-powered chatbots and virtual assistants, fostering stronger relationships and satisfaction.

In addition, AI algorithms play a crucial role in risk management and fraud detection, enabling banks to proactively identify and mitigate potential threats in real-time. Automating repetitive tasks through robotic process automation (RPA) allows employees to focus on higher-value activities, driving innovation and productivity.

However, as we embrace the benefits of AI, it is critical to ensure that customer trust remains intact and that the technology serves as a positive force within the industry.

“For the banking industry to effectively incorporate AI, it’s crucial to strike a delicate balance between utilizing cutting-edge technology and addressing important concerns such as ethics, regulations, and customer trust. Adopting a mindful and transparent strategy is essential in unlocking the full capabilities of AI to improve banking operations and customer satisfaction”.

- Mónica Rodríguez Calvache, Data Science Leader at Pragma

Meet Pragma!

Discover technological tools tailored to your company's needs so you can also be part of the technological transformation.



Artificial Intelligence for Banking: Unlocking the Future of Financial Services





How Pragma can help?

Pragma's consulting and technology teams have a consolidated trajectory of achieving organizational goals by intelligently leveraging the knowledge of your business, final customer, and technology.

Our teams have vast experience solving different kinds of challenges:

- Data Value Journey
- Advanced Data Analytics
- Data Architecture
- Data Governance
- Behavior Analysis

Join the companies that work with Pragma to get more value from their data.

For more information, visit:

[Data Science Connecting Strategy](#)

About Pragma

We are a Custom Software Development and Digital Transformation Company founded 28 years ago, with the purpose of improving lives by transforming businesses.

We offer the whole knowledge and technical capabilities of the Big Tech Consulting firms with the dedication and service level of a Tech Boutique, boosting our client's impact and growth, and becoming their more trusted IT partner.

We are more than 1,300 pragmatics who have delivered over 700 projects for 150+ clients in 12 countries across the continent. We're partners with AWS, Salesforce, Adobe, Vtex, and more technology leaders.

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