

**Generative AI in BFSI Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Deployment (Cloud-based, On-premises), By Technology (Natural Language Processing, Machine Learning, Deep Learning, Robotic Process Automation), By Application (Fraud Detection & Prevention, Customer Service & Support, Personalized Financial Advisory, Risk Management & Compliance, Others), By End-Use (Banking, Financial Services, Insurance, Others), By Region and Competition, 2019-2029F**

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**Report description:**

The Global Generative AI in BFSI Market was valued at USD 1210.50 million in 2023 and is expected to reach USD 5100.65 million by 2029 with a CAGR of 27.09% through 2029.

BFSI sector refers to advanced AI technologies that create and generate new content, insights, and solutions by learning from vast amounts of data. This includes leveraging machine learning algorithms to produce novel financial models, automate complex processes, and offer personalized customer interactions. Generative AI can generate realistic financial scenarios, craft automated reports, and enhance decision-making through predictive analytics, thereby significantly improving operational efficiency. In the BFSI sector, this technology transforms various functions, from fraud detection and risk management to customer service and regulatory compliance, by providing deeper insights and more accurate predictions. The market for generative AI in BFSI is expected to rise substantially due to several driving factors. The increasing demand for automation and efficiency in financial operations propels the adoption of AI technologies, which reduce manual intervention and streamline processes. Financial institutions and insurance companies grapple with vast volumes of data, generative AI offers advanced analytical capabilities that

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help in deriving actionable insights and making data-driven decisions more efficiently. The growing need for enhanced customer experiences fuels the development of AI-driven personalized services and support systems, such as chatbots and virtual assistants, which improve customer engagement and satisfaction. Regulatory pressures for better compliance and risk management are pushing institutions to adopt AI solutions that ensure adherence to standards while mitigating potential risks. The rise in cyber threats and fraud also accelerates the adoption of AI tools designed to detect and prevent fraudulent activities with greater accuracy. The ongoing advancements in AI technology, including natural language processing and deep learning, continuously enhance the capabilities and applications of generative AI, making it an increasingly attractive investment for BFSI organizations seeking competitive advantage. As financial institutions and insurers increasingly recognize the strategic value of generative AI in driving innovation, efficiency, and customer-centricity, the market for these solutions is poised for significant growth, reflecting the transformative impact of AI on the future of the BFSI industry.

#### Key Market Drivers

##### Increasing Demand for Operational Efficiency

The drive towards operational efficiency is a key factor propelling the adoption of generative artificial intelligence in the BFSI sector. Financial institutions are continually seeking ways to optimize their operations and reduce costs while maintaining high service standards. Generative artificial intelligence offers a solution by automating repetitive and complex tasks, thereby streamlining processes and reducing the need for manual intervention. For instance, AI-driven automation can handle routine data entry, process claims, and manage transactions more swiftly than human counterparts. This not only accelerates workflow but also minimizes errors associated with manual processes. By integrating generative artificial intelligence into their operations, organizations can achieve significant cost savings, enhance accuracy, and improve overall efficiency. AI's capability to analyze vast amounts of data and generate actionable insights further aids in decision-making, allowing institutions to respond more effectively to market changes and operational challenges. As the demand for operational excellence continues to rise, the role of generative AI becomes increasingly critical in helping financial institutions meet their efficiency goals and stay competitive.

##### Advanced Fraud Detection and Risk Management

Generative AI plays a pivotal role in advancing fraud detection and risk management within the BFSI sector. As financial institutions face increasing threats from sophisticated fraud schemes and regulatory pressures, the need for robust and proactive risk management solutions becomes paramount. Generative Artificial Intelligence enhances fraud detection by analyzing large datasets to identify unusual patterns and anomalies indicative of fraudulent activity. AI systems can generate predictive models that anticipate potential threats and detect anomalies in real-time, significantly improving the accuracy and speed of fraud detection. Similarly, AI-driven risk management tools can simulate various financial scenarios and assess potential risks, allowing institutions to develop more effective strategies for mitigating and managing those risks. By incorporating Generative Artificial Intelligence into their fraud detection and risk management processes, financial institutions can enhance their ability to safeguard assets, comply with regulations, and protect their reputation. The continuous evolution of AI technologies further strengthens their capacity to address emerging threats and maintain a secure and resilient financial environment.

##### Regulatory Compliance and Reporting

The need for regulatory compliance and accurate reporting is a significant driver for the adoption of Generative Artificial Intelligence in the Banking, Financial Services, and Insurance sector. As regulatory requirements become more stringent and complex, financial institutions must ensure they meet compliance standards and provide accurate and timely reports. Generative Artificial Intelligence offers a solution by automating compliance processes and generating comprehensive reports. AI technologies can analyze regulatory changes, ensure adherence to compliance standards, and produce detailed documentation with minimal manual effort. For instance, AI can automatically generate compliance reports, track regulatory changes, and ensure that all necessary documentation is in order. This not only reduces the risk of non-compliance and associated penalties but also improves the efficiency of reporting processes. Additionally, AI's ability to analyze vast amounts of data helps institutions identify potential compliance issues and address them proactively. By leveraging Generative Artificial Intelligence for compliance and reporting, financial institutions can streamline their processes, mitigate risks, and maintain regulatory standards with greater accuracy and efficiency.

##### Innovation and Competitive Advantage

The drive for innovation and maintaining a competitive edge is a key factor influencing the adoption of generative artificial

intelligence in the Banking, Financial Services, and Insurance sector. In a rapidly evolving financial landscape, organizations must continuously innovate to stay ahead of competitors and meet the changing needs of their customers. Generative AI enables financial institutions to develop new products, services, and business models that differentiate them in the market. For example, AI can generate innovative financial products tailored to emerging market trends or create advanced analytical tools that provide unique insights and capabilities. By integrating AI into their operations, financial institutions can enhance their ability to respond to market dynamics, drive product development, and offer cutting-edge solutions. The competitive advantage gained through AI-driven innovation helps organizations attract and retain customers, enhance market positioning, and achieve sustainable growth. As the financial sector continues to embrace technological advancements, generative artificial intelligence will play a crucial role in fostering innovation and securing a competitive edge in the marketplace.

#### Key Market Challenges

##### Data Privacy and Security Concerns

One of the primary challenges facing generative AI in the BFSI sector is the concern surrounding data privacy and security. Generative artificial intelligence systems require access to vast amounts of sensitive and confidential data to function effectively. This includes personal financial information, transaction histories, and other proprietary data that, if compromised, can lead to significant security breaches and privacy violations. The implementation of generative artificial intelligence necessitates rigorous data protection measures to prevent unauthorized access and potential misuse. Financial institutions must ensure that their AI systems are compliant with stringent data protection regulations, such as the General Data Protection Regulation in Europe or the California Consumer Privacy Act in the United States. Furthermore, the use of generative AI introduces new vectors for cyber threats, including potential vulnerabilities in AI algorithms that could be exploited by malicious actors. Ensuring that AI systems are secure against hacking, data breaches, and other cybersecurity threats is essential to maintaining trust and protecting sensitive information. The complexity of AI algorithms can sometimes obscure the data processing mechanisms, making it challenging to ensure full transparency and control over data usage. Financial institutions must invest in robust security frameworks, regular audits, and continuous monitoring to safeguard data privacy and address these challenges effectively. This involves adopting advanced encryption techniques, securing data transmission channels, and implementing comprehensive data governance policies to protect against potential threats and ensure compliance with privacy regulations.

##### Integration with Legacy Systems

Another significant challenge for generative AI in the BFSI sector is the integration with legacy systems. Many financial institutions operate with a range of outdated or proprietary systems that were not designed to accommodate modern AI technologies. Integrating generative artificial intelligence into these legacy systems can be complex, costly, and time-consuming. Legacy systems often lack the necessary infrastructure to support advanced AI capabilities, requiring substantial upgrades or complete overhauls to enable seamless integration. The process of integrating new AI solutions with existing systems involves addressing compatibility issues, data migration challenges, and potential disruptions to ongoing operations. Furthermore, legacy systems may have limitations in terms of data accessibility and interoperability, which can hinder the effectiveness of generative artificial intelligence in generating accurate and actionable insights. The complexity of integrating AI solutions also raises concerns about system stability and operational continuity. Financial institutions must carefully plan and execute integration strategies, involving rigorous testing and phased implementation approaches to minimize disruptions. This challenge often requires collaboration with technology partners and consultants to navigate the technical and organizational hurdles associated with upgrading legacy systems and ensuring that they can effectively support generative artificial intelligence applications.

##### Ethical and Bias Issues

Ethical and bias issues present a considerable challenge for generative AI in the BFSI sector. As generative artificial intelligence systems are trained on historical data, there is a risk that they may inadvertently perpetuate existing biases and inequities present in the data. For example, AI models used for credit scoring or loan approvals might reflect and reinforce historical biases against certain demographic groups, leading to unfair treatment and discrimination. Addressing these ethical concerns requires careful attention to the design and training of AI systems to ensure that they are unbiased and equitable. Financial institutions must implement rigorous oversight and auditing processes to detect and mitigate any biases in AI algorithms. This involves regularly reviewing AI decision-making processes, conducting fairness assessments, and employing techniques to balance and adjust training data to prevent bias. Additionally, there is an ethical responsibility to ensure transparency in how AI systems make

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decisions and to provide mechanisms for recourse and accountability for affected individuals. The challenge also extends to ensuring that generative artificial intelligence is used responsibly and aligns with ethical standards and regulatory requirements. Financial institutions must engage in ongoing dialogue with stakeholders, including customers, regulators, and advocacy groups, to address ethical concerns and promote responsible AI practices. Balancing innovation with ethical considerations is crucial for maintaining public trust and ensuring that generative artificial intelligence contributes positively to the BFSI sector.

#### Key Market Trends

##### Enhanced Personalization Through AI-Driven Insights

A prominent trend in the generative AI space within the BFSI sector is the increased focus on enhanced personalization. Generative AI enables financial institutions to analyze vast amounts of customer data to generate highly personalized financial products and services. This includes creating tailored investment portfolios, personalized loan offers, and customized insurance plans based on individual customer profiles and preferences. By leveraging advanced machine learning algorithms and data analytics, financial organizations can deliver recommendations and solutions that are precisely aligned with the specific needs and goals of their clients. This trend is driven by the growing expectation among customers for more relevant and individualized experiences. Financial institutions are utilizing generative AI to not only improve customer satisfaction but also to foster deeper client relationships and enhance loyalty. The ability to provide personalized recommendations and solutions can lead to more effective cross-selling and upselling opportunities, ultimately driving revenue growth. As customer expectations continue to evolve, the emphasis on personalization will likely become a central strategy for financial institutions looking to differentiate themselves in a competitive market.

##### AI-Powered Risk Management and Fraud Detection

Another significant trend is the adoption of generative AI for advanced risk management and fraud detection. The BFSI sector faces increasing challenges related to financial crime and risk management, making it imperative for organizations to enhance their capabilities in these areas. Generative AI technologies are being used to develop sophisticated models that can analyze vast amounts of transaction data to identify unusual patterns and potential fraud in real-time. These AI-driven systems can generate predictive insights and simulate various risk scenarios, allowing institutions to proactively address potential threats and mitigate risks. By leveraging generative AI, financial institutions can enhance their ability to detect fraudulent activities, reduce false positives, and improve overall security. This trend is driven by the increasing complexity of financial crimes and the need for more effective and efficient risk management solutions. The integration of generative AI into fraud detection systems represents a significant advancement in protecting financial assets and ensuring regulatory compliance.

##### Automation of Routine Operations and Customer Interactions

The automation of routine operations and customer interactions is a key trend emerging from the use of generative AI in the BFSI sector. Generative AI technologies are increasingly being employed to automate various routine tasks, such as data entry, document processing, and customer service inquiries. This automation helps financial institutions streamline their operations, reduce operational costs, and improve overall efficiency. For instance, AI-driven chatbots and virtual assistants can handle customer inquiries, process transactions, and provide support without human intervention, freeing up staff to focus on more complex tasks. Additionally, generative artificial intelligence can automate document analysis and compliance checks, reducing the time and effort required for these tasks. This trend reflects a broader movement towards digital transformation and operational efficiency within the BFSI sector. By embracing automation through generative artificial intelligence, financial institutions can enhance their operational capabilities, improve service delivery, and maintain competitive advantage.

#### Segmental Insights

##### Deployment Insights

The cloud-based deployment segment emerged as the dominant force in the generative AI in BFSI market in 2023 and is anticipated to sustain its leadership throughout the forecast period. This dominance is driven by several key advantages inherent in cloud-based solutions, including their scalability, flexibility, and cost-effectiveness. Cloud-based deployment enables financial institutions to access advanced generative AI technologies without the need for significant upfront investments in physical infrastructure. Instead, they can leverage the cloud's resources on a pay-as-you-go basis, which significantly reduces capital expenditures and aligns costs with usage. Cloud-based solutions offer exceptional scalability, allowing institutions to easily adjust their computational resources and storage capacities based on fluctuating demands and business growth. This scalability is

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particularly beneficial in the BFSI sector, where data volumes and processing requirements can vary greatly. The cloud also facilitates rapid deployment and integration of generative AI tools, enabling organizations to swiftly implement new AI models and updates without extensive delays. The cloud-based platforms support real-time data access and collaboration, enhancing the ability to generate actionable insights and improve decision-making across distributed teams. The ongoing advancements in cloud technology, including enhanced security features and robust compliance controls, further reinforce its attractiveness for financial institutions concerned about data protection and regulatory adherence. As these benefits continue to resonate with organizations seeking to optimize their generative AI capabilities, the cloud-based deployment segment is expected to maintain its prominence, driving continued growth and innovation in the BFSI sector.

#### Regional Insights

North America dominated the generative AI in BFSI market in 2023 and is projected to maintain its leading position throughout the forecast period. This dominance is largely attributed to the region's advanced technological infrastructure, high concentration of financial institutions, and strong innovation ecosystem. North America, particularly the United States, boasts a well-established financial sector with a significant focus on adopting cutting-edge technologies to enhance operational efficiency and customer experience. The presence of major technology companies, coupled with a robust investment environment, fosters continuous advancements in generative AI and its applications within the BFSI sector. North American financial institutions are increasingly leveraging generative AI for applications such as fraud detection, personalized customer service, and risk management, driving widespread adoption and integration. The region's supportive regulatory environment and emphasis on digital transformation also contribute to its dominance, as companies seek to stay competitive by implementing the latest AI technologies. As innovation and technological advancements continue to accelerate, North America is expected to retain its leadership in the generative AI market due to its substantial resources, industry expertise, and commitment to leveraging AI for enhancing financial services.

#### Key Market Players

- IBM Corporation
- Microsoft Corporation
- Google LLC
- Amazon Web Services, Inc.
- Salesforce, Inc.
- SAP SE
- Oracle Corporation
- NVIDIA Corporation
- Palantir Technologies Inc.
- C3.ai, Inc.
- DataRobot, Inc.
- H2O.ai, Inc.

#### Report Scope:

In this report, the Global Generative AI in BFSI Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- Generative AI in BFSI Market, By Deployment:
  - o Cloud-based
  - o On-premises
- Generative AI in BFSI Market, By Technology:
  - o Natural Language Processing
  - o Machine Learning
  - o Deep Learning
  - o Robotic Process Automation
- Generative AI in BFSI Market, By Application:
  - o Fraud Detection & Prevention
  - o Customer Service & Support

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- o Personalized Financial Advisory
- o Risk Management & Compliance
- o Others
- Generative AI in BFSI Market, By End-Use:
  - o Banking
  - o Financial Services
  - o Insurance
  - o Others

□ Generative AI in BFSI Market, By Region:

- o North America
  - United States
  - Canada
  - Mexico
- o Europe
  - Germany
  - France
  - United Kingdom
  - Italy
  - Spain
  - Belgium
- o Asia-Pacific
  - China
  - India
  - Japan
  - South Korea
  - Australia
  - Indonesia
  - Vietnam
- o South America
  - Brazil
  - Colombia
  - Argentina
  - Chile
- o Middle East & Africa
  - Saudi Arabia
  - UAE
  - South Africa
  - Turkey
  - Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Generative AI in BFSI Market.

Available Customizations:

Global Generative AI in BFSI Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

**Table of Contents:**

**Scotts International. EU Vat number: PL 6772247784**

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1. Service Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Market
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations
2. Research Methodology
  - 2.1. Objective of the Study
  - 2.2. Baseline Methodology
  - 2.3. Formulation of the Scope
  - 2.4. Assumptions and Limitations
  - 2.5. Sources of Research
    - 2.5.1. Secondary Research
    - 2.5.2. Primary Research
  - 2.6. Approach for the Market Study
    - 2.6.1. The Bottom-Up Approach
    - 2.6.2. The Top-Down Approach
  - 2.7. Methodology Followed for Calculation of Market Size & Market Shares
  - 2.8. Forecasting Methodology
    - 2.8.1. Data Triangulation & Validation
3. Executive Summary
4. Voice of Customer
5. Global Generative AI in BFSI Market Overview
6. Global Generative AI in BFSI Market Outlook
  - 6.1. Market Size & Forecast
    - 6.1.1. By Value
  - 6.2. Market Share & Forecast
    - 6.2.1. By Deployment (Cloud-based, On-premises)
    - 6.2.2. By Technology (Natural Language Processing, Machine Learning, Deep Learning, Robotic Process Automation)
    - 6.2.3. By Application (Fraud Detection & Prevention, Customer Service & Support, Personalized Financial Advisory, Risk Management & Compliance, Others)
    - 6.2.4. By End-Use (Banking, Financial Services, Insurance, Others)
    - 6.2.5. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
  - 6.3. By Company (2023)
  - 6.4. Market Map
7. North America Generative AI in BFSI Market Outlook
  - 7.1. Market Size & Forecast
    - 7.1.1. By Value
  - 7.2. Market Share & Forecast
    - 7.2.1. By Deployment
    - 7.2.2. By Technology
    - 7.2.3. By Application
    - 7.2.4. By End-Use
    - 7.2.5. By Country
  - 7.3. North America: Country Analysis
    - 7.3.1. United States Generative AI in BFSI Market Outlook
      - 7.3.1.1. Market Size & Forecast

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- 7.3.1.1.1. By Value
- 7.3.1.2. Market Share & Forecast
- 7.3.1.2.1. By Deployment
- 7.3.1.2.2. By Technology
- 7.3.1.2.3. By Application
- 7.3.1.2.4. By End-Use
- 7.3.2. Canada Generative AI in BFSI Market Outlook
- 7.3.2.1. Market Size & Forecast
- 7.3.2.1.1. By Value
- 7.3.2.2. Market Share & Forecast
- 7.3.2.2.1. By Deployment
- 7.3.2.2.2. By Technology
- 7.3.2.2.3. By Application
- 7.3.2.2.4. By End-Use
- 7.3.3. Mexico Generative AI in BFSI Market Outlook
- 7.3.3.1. Market Size & Forecast
- 7.3.3.1.1. By Value
- 7.3.3.2. Market Share & Forecast
- 7.3.3.2.1. By Deployment
- 7.3.3.2.2. By Technology
- 7.3.3.2.3. By Application
- 7.3.3.2.4. By End-Use
- 8. Europe Generative AI in BFSI Market Outlook
- 8.1. Market Size & Forecast
- 8.1.1. By Value
- 8.2. Market Share & Forecast
- 8.2.1. By Deployment
- 8.2.2. By Technology
- 8.2.3. By Application
- 8.2.4. By End-Use
- 8.2.5. By Country
- 8.3. Europe: Country Analysis
- 8.3.1. Germany Generative AI in BFSI Market Outlook
- 8.3.1.1. Market Size & Forecast
- 8.3.1.1.1. By Value
- 8.3.1.2. Market Share & Forecast
- 8.3.1.2.1. By Deployment
- 8.3.1.2.2. By Technology
- 8.3.1.2.3. By Application
- 8.3.1.2.4. By End-Use
- 8.3.2. France Generative AI in BFSI Market Outlook
- 8.3.2.1. Market Size & Forecast
- 8.3.2.1.1. By Value
- 8.3.2.2. Market Share & Forecast
- 8.3.2.2.1. By Deployment
- 8.3.2.2.2. By Technology
- 8.3.2.2.3. By Application

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- 8.3.2.2.4. By End-Use
- 8.3.3. United Kingdom Generative AI in BFSI Market Outlook
  - 8.3.3.1. Market Size & Forecast
    - 8.3.3.1.1. By Value
  - 8.3.3.2. Market Share & Forecast
    - 8.3.3.2.1. By Deployment
    - 8.3.3.2.2. By Technology
    - 8.3.3.2.3. By Application
    - 8.3.3.2.4. By End-Use
- 8.3.4. Italy Generative AI in BFSI Market Outlook
  - 8.3.4.1. Market Size & Forecast
    - 8.3.4.1.1. By Value
  - 8.3.4.2. Market Share & Forecast
    - 8.3.4.2.1. By Deployment
    - 8.3.4.2.2. By Technology
    - 8.3.4.2.3. By Application
    - 8.3.4.2.4. By End-Use
- 8.3.5. Spain Generative AI in BFSI Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Deployment
    - 8.3.5.2.2. By Technology
    - 8.3.5.2.3. By Application
    - 8.3.5.2.4. By End-Use
- 8.3.6. Belgium Generative AI in BFSI Market Outlook
  - 8.3.6.1. Market Size & Forecast
    - 8.3.6.1.1. By Value
  - 8.3.6.2. Market Share & Forecast
    - 8.3.6.2.1. By Deployment
    - 8.3.6.2.2. By Technology
    - 8.3.6.2.3. By Application
    - 8.3.6.2.4. By End-Use
- 9. Asia Pacific Generative AI in BFSI Market Outlook
  - 9.1. Market Size & Forecast
    - 9.1.1. By Value
  - 9.2. Market Share & Forecast
    - 9.2.1. By Deployment
    - 9.2.2. By Technology
    - 9.2.3. By Application
    - 9.2.4. By End-Use
    - 9.2.5. By Country
  - 9.3. Asia-Pacific: Country Analysis
    - 9.3.1. China Generative AI in BFSI Market Outlook
      - 9.3.1.1. Market Size & Forecast
        - 9.3.1.1.1. By Value
      - 9.3.1.2. Market Share & Forecast

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- 9.3.1.2.1. By Deployment
- 9.3.1.2.2. By Technology
- 9.3.1.2.3. By Application
- 9.3.1.2.4. By End-Use
- 9.3.2. India Generative AI in BFSI Market Outlook
  - 9.3.2.1. Market Size & Forecast
    - 9.3.2.1.1. By Value
  - 9.3.2.2. Market Share & Forecast
    - 9.3.2.2.1. By Deployment
    - 9.3.2.2.2. By Technology
    - 9.3.2.2.3. By Application
    - 9.3.2.2.4. By End-Use
- 9.3.3. Japan Generative AI in BFSI Market Outlook
  - 9.3.3.1. Market Size & Forecast
    - 9.3.3.1.1. By Value
  - 9.3.3.2. Market Share & Forecast
    - 9.3.3.2.1. By Deployment
    - 9.3.3.2.2. By Technology
    - 9.3.3.2.3. By Application
    - 9.3.3.2.4. By End-Use
- 9.3.4. South Korea Generative AI in BFSI Market Outlook
  - 9.3.4.1. Market Size & Forecast
    - 9.3.4.1.1. By Value
  - 9.3.4.2. Market Share & Forecast
    - 9.3.4.2.1. By Deployment
    - 9.3.4.2.2. By Technology
    - 9.3.4.2.3. By Application
    - 9.3.4.2.4. By End-Use
- 9.3.5. Australia Generative AI in BFSI Market Outlook
  - 9.3.5.1. Market Size & Forecast
    - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
    - 9.3.5.2.1. By Deployment
    - 9.3.5.2.2. By Technology
    - 9.3.5.2.3. By Application
    - 9.3.5.2.4. By End-Use
- 9.3.6. Indonesia Generative AI in BFSI Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
    - 9.3.6.2.1. By Deployment
    - 9.3.6.2.2. By Technology
    - 9.3.6.2.3. By Application
    - 9.3.6.2.4. By End-Use
- 9.3.7. Vietnam Generative AI in BFSI Market Outlook
  - 9.3.7.1. Market Size & Forecast
    - 9.3.7.1.1. By Value

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- 9.3.7.2. Market Share & Forecast
  - 9.3.7.2.1. By Deployment
  - 9.3.7.2.2. By Technology
  - 9.3.7.2.3. By Application
  - 9.3.7.2.4. By End-Use
- 10. South America Generative AI in BFSI Market Outlook
  - 10.1. Market Size & Forecast
    - 10.1.1. By Value
  - 10.2. Market Share & Forecast
    - 10.2.1. By Deployment
    - 10.2.2. By Technology
    - 10.2.3. By Application
    - 10.2.4. By End-Use
    - 10.2.5. By Country
  - 10.3. South America: Country Analysis
    - 10.3.1. Brazil Generative AI in BFSI Market Outlook
      - 10.3.1.1. Market Size & Forecast
        - 10.3.1.1.1. By Value
      - 10.3.1.2. Market Share & Forecast
        - 10.3.1.2.1. By Deployment
        - 10.3.1.2.2. By Technology
        - 10.3.1.2.3. By Application
        - 10.3.1.2.4. By End-Use
    - 10.3.2. Colombia Generative AI in BFSI Market Outlook
      - 10.3.2.1. Market Size & Forecast
        - 10.3.2.1.1. By Value
      - 10.3.2.2. Market Share & Forecast
        - 10.3.2.2.1. By Deployment
        - 10.3.2.2.2. By Technology
        - 10.3.2.2.3. By Application
        - 10.3.2.2.4. By End-Use
    - 10.3.3. Argentina Generative AI in BFSI Market Outlook
      - 10.3.3.1. Market Size & Forecast
        - 10.3.3.1.1. By Value
      - 10.3.3.2. Market Share & Forecast
        - 10.3.3.2.1. By Deployment
        - 10.3.3.2.2. By Technology
        - 10.3.3.2.3. By Application
        - 10.3.3.2.4. By End-Use
    - 10.3.4. Chile Generative AI in BFSI Market Outlook
      - 10.3.4.1. Market Size & Forecast
        - 10.3.4.1.1. By Value
      - 10.3.4.2. Market Share & Forecast
        - 10.3.4.2.1. By Deployment
        - 10.3.4.2.2. By Technology
        - 10.3.4.2.3. By Application
        - 10.3.4.2.4. By End-Use

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- 11. Middle East & Africa Generative AI in BFSI Market Outlook
  - 11.1. Market Size & Forecast
    - 11.1.1. By Value
  - 11.2. Market Share & Forecast
    - 11.2.1. By Deployment
    - 11.2.2. By Technology
    - 11.2.3. By Application
    - 11.2.4. By End-Use
    - 11.2.5. By Country
  - 11.3. Middle East & Africa: Country Analysis
    - 11.3.1. Saudi Arabia Generative AI in BFSI Market Outlook
      - 11.3.1.1. Market Size & Forecast
        - 11.3.1.1.1. By Value
      - 11.3.1.2. Market Share & Forecast
        - 11.3.1.2.1. By Deployment
        - 11.3.1.2.2. By Technology
        - 11.3.1.2.3. By Application
        - 11.3.1.2.4. By End-Use
    - 11.3.2. UAE Generative AI in BFSI Market Outlook
      - 11.3.2.1. Market Size & Forecast
        - 11.3.2.1.1. By Value
      - 11.3.2.2. Market Share & Forecast
        - 11.3.2.2.1. By Deployment
        - 11.3.2.2.2. By Technology
        - 11.3.2.2.3. By Application
        - 11.3.2.2.4. By End-Use
    - 11.3.3. South Africa Generative AI in BFSI Market Outlook
      - 11.3.3.1. Market Size & Forecast
        - 11.3.3.1.1. By Value
      - 11.3.3.2. Market Share & Forecast
        - 11.3.3.2.1. By Deployment
        - 11.3.3.2.2. By Technology
        - 11.3.3.2.3. By Application
        - 11.3.3.2.4. By End-Use
    - 11.3.4. Turkey Generative AI in BFSI Market Outlook
      - 11.3.4.1. Market Size & Forecast
        - 11.3.4.1.1. By Value
      - 11.3.4.2. Market Share & Forecast
        - 11.3.4.2.1. By Deployment
        - 11.3.4.2.2. By Technology
        - 11.3.4.2.3. By Application
        - 11.3.4.2.4. By End-Use
    - 11.3.5. Israel Generative AI in BFSI Market Outlook
      - 11.3.5.1. Market Size & Forecast
        - 11.3.5.1.1. By Value
      - 11.3.5.2. Market Share & Forecast
        - 11.3.5.2.1. By Deployment

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- 11.3.5.2.2. By Technology
- 11.3.5.2.3. By Application
- 11.3.5.2.4. By End-Use
- 12. Market Dynamics
  - 12.1. Drivers
  - 12.2. Challenges
- 13. Market Trends and Developments
- 14. Company Profiles
  - 14.1. IBM Corporation
    - 14.1.1. Business Overview
    - 14.1.2. Key Revenue and Financials
    - 14.1.3. Recent Developments
    - 14.1.4. Key Personnel/Key Contact Person
    - 14.1.5. Key Product/Services Offered
  - 14.2. Microsoft Corporation
    - 14.2.1. Business Overview
    - 14.2.2. Key Revenue and Financials
    - 14.2.3. Recent Developments
    - 14.2.4. Key Personnel/Key Contact Person
    - 14.2.5. Key Product/Services Offered
  - 14.3. Google LLC
    - 14.3.1. Business Overview
    - 14.3.2. Key Revenue and Financials
    - 14.3.3. Recent Developments
    - 14.3.4. Key Personnel/Key Contact Person
    - 14.3.5. Key Product/Services Offered
  - 14.4. Amazon Web Services, Inc.
    - 14.4.1. Business Overview
    - 14.4.2. Key Revenue and Financials
    - 14.4.3. Recent Developments
    - 14.4.4. Key Personnel/Key Contact Person
    - 14.4.5. Key Product/Services Offered
  - 14.5. Salesforce, Inc.
    - 14.5.1. Business Overview
    - 14.5.2. Key Revenue and Financials
    - 14.5.3. Recent Developments
    - 14.5.4. Key Personnel/Key Contact Person
    - 14.5.5. Key Product/Services Offered
  - 14.6. SAP SE
    - 14.6.1. Business Overview
    - 14.6.2. Key Revenue and Financials
    - 14.6.3. Recent Developments
    - 14.6.4. Key Personnel/Key Contact Person
    - 14.6.5. Key Product/Services Offered
  - 14.7. Oracle Corporation
    - 14.7.1. Business Overview
    - 14.7.2. Key Revenue and Financials

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- 14.7.3. Recent Developments
- 14.7.4. Key Personnel/Key Contact Person
- 14.7.5. Key Product/Services Offered
- 14.8. NVIDIA Corporation
  - 14.8.1. Business Overview
  - 14.8.2. Key Revenue and Financials
  - 14.8.3. Recent Developments
  - 14.8.4. Key Personnel/Key Contact Person
  - 14.8.5. Key Product/Services Offered
- 14.9. Palantir Technologies Inc.
  - 14.9.1. Business Overview
  - 14.9.2. Key Revenue and Financials
  - 14.9.3. Recent Developments
  - 14.9.4. Key Personnel/Key Contact Person
  - 14.9.5. Key Product/Services Offered
- 14.10. C3.ai, Inc.
  - 14.10.1. Business Overview
  - 14.10.2. Key Revenue and Financials
  - 14.10.3. Recent Developments
  - 14.10.4. Key Personnel/Key Contact Person
  - 14.10.5. Key Product/Services Offered
- 14.11. DataRobot, Inc.
  - 14.11.1. Business Overview
  - 14.11.2. Key Revenue and Financials
  - 14.11.3. Recent Developments
  - 14.11.4. Key Personnel/Key Contact Person
  - 14.11.5. Key Product/Services Offered
- 14.12. H2O.ai, Inc.
  - 14.12.1. Business Overview
  - 14.12.2. Key Revenue and Financials
  - 14.12.3. Recent Developments
  - 14.12.4. Key Personnel/Key Contact Person
  - 14.12.5. Key Product/Services Offered
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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