

Global Artificial Intelligence Market by Offering (Hardware, Software, Services), By Application (Image Recognition, Natural Language Processing, Speech Recognition, Computer Vision, Other), By Business Function (Finance, Security, Human Resource, Law, Marketing & Sales, Operations, Supply Chain Management), By End User (BFSI, Fashion and Retail, Healthcare and Life Sciences, Manufacturing, Automotive, Aerospace and Defense, Construction, Other), By Region, Competition, 2018-2028

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Abstracts

The global artificial intelligence market was valued at USD 135.83 billion by the end of 2022, with a compound annual growth rate (CAGR) of 36.62% during the forecast period. The global artificial intelligence (AI) market is undergoing a seismic transformation that is revolutionizing industries, economies, and societies worldwide. Characterized by machine learning, natural language processing, computer vision, and data analytics, AI is not merely a technology; it is a paradigm shift in how we perceive and harness computational power. With a compounded annual growth rate (CAGR) that continues to accelerate, the AI market is poised to reach unprecedented heights in the coming years.

One of the driving forces behind AI's explosive growth is its remarkable adaptability. AI technologies have the capacity to automate tasks, analyze vast datasets, and make predictive decisions across an astonishing array of sectors. In healthcare, AI is revolutionizing patient care by assisting in disease diagnosis, predicting treatment

outcomes, and expediting drug discovery. The financial sector relies on AI for risk management, fraud detection, and algorithmic trading, all of which require rapid data analysis and decision-making. In customer service, chatbots and virtual assistants powered by AI are transforming the way businesses interact with their customers, providing instant solutions and personalized experiences. Additionally, the promise of autonomous vehicles, underpinned by AI-driven technologies, is set to reshape transportation by improving safety, reducing accidents, and enhancing overall efficiency.

AI's explosive growth is also intrinsically tied to the immense volumes of data generated daily. Organizations are increasingly harnessing AI's capabilities to make sense of this data, extracting invaluable insights that drive data-driven decision-making. Machine learning algorithms are optimizing supply chains, predicting consumer behavior, and even generating creative content autonomously. This data-driven approach has not only boosted efficiency but has also led to substantial cost savings and enhanced competitiveness in the global marketplace.

Moreover, AI research and development are not the exclusive domain of tech giants. Startups and enterprises across the globe are making significant investments in AI innovation, fostering a vibrant ecosystem of creativity and competition. Governments, recognizing the strategic significance of AI, are actively formulating policies and regulations to support its responsible development and adoption, thereby ensuring its enduring growth and societal impact.

However, as AI's influence grows, so do the associated challenges. Ethical considerations loom large, with concerns about algorithmic bias and data privacy demanding careful scrutiny. It is crucial to ensure that AI systems are developed and deployed in a way that is equitable, transparent, and respects human rights. In parallel, the potential displacement of jobs due to automation is a pressing issue that necessitates proactive workforce reskilling and adaptation strategies. Furthermore, the increasing integration of AI into critical systems raises concerns about cybersecurity threats, demanding robust safeguards to protect against data breaches, attacks, and vulnerabilities.

In conclusion, the global AI market is in the midst of a seismic shift that transcends technology. It represents a profound transformation that impacts every facet of our lives, from healthcare and finance to customer service and transportation. AI's versatility, driven by advancements in machine learning and data analytics, is unleashing innovation across industries and fostering a dynamic ecosystem of creativity and competition. However, as we navigate this AI-driven landscape, addressing ethical,

workforce, and cybersecurity challenges is paramount to ensuring its responsible and sustainable growth. The potential for transformative change is boundless, promising to enhance our lives, reshape economies, and push the boundaries of what is possible. AI is no longer just a technology; it is the driving force behind a new era of human progress.

Key Market Drivers

Rapid Technological Advancements and Innovation in AI

The global artificial intelligence market is being propelled by a relentless wave of technological advancements and innovative breakthroughs. These innovations span a wide spectrum of AI technologies, including machine learning, natural language processing, computer vision, and reinforcement learning. With each passing year, AI algorithms become more sophisticated, capable of handling increasingly complex tasks, and offering higher levels of accuracy and efficiency. One of the key drivers behind this rapid progress is the proliferation of data. As organizations accumulate vast amounts of data, AI systems can be trained on more diverse and extensive datasets, enhancing their capabilities. Additionally, advancements in hardware, such as the development of powerful graphics processing units (GPUs) and dedicated AI accelerators, have significantly boosted the speed and efficiency of AI computations. The innovation in AI is not limited to just technology companies; businesses across various industries are actively investing in research and development efforts to harness the power of AI for their specific needs. As AI technologies continue to evolve, we can expect even more transformative applications in healthcare, finance, transportation, and beyond, solidifying AI's position as a game-changing force in the global market.

Growing Adoption Across Diverse Industries

The widespread adoption of artificial intelligence across diverse industries is another critical driver of the global AI market. AI is no longer confined to a few specialized sectors; instead, it is becoming an integral part of virtually every industry, from healthcare and finance to manufacturing and entertainment. In healthcare, AI is revolutionizing patient care by improving diagnostic accuracy, predicting disease outbreaks, and streamlining administrative processes. In finance, AI-powered algorithms are enhancing fraud detection, algorithmic trading, and risk management. The manufacturing sector is benefiting from AI-driven automation and predictive maintenance, reducing downtime and increasing operational efficiency. Furthermore, AI is playing a pivotal role in the development of autonomous vehicles, smart cities, and

energy management systems, driving innovation and sustainability. This broad adoption is driven by the promise of increased efficiency, cost savings, and enhanced decision-making. As organizations recognize the value of AI in improving their operations and competitiveness, the demand for AI solutions continues to rise, further fueling market growth.

Expanding Data Ecosystem

The expanding data ecosystem is a foundational driver of the global AI market. AI algorithms thrive on data, and the increasing digitization of our world has led to an explosion of data generation. The proliferation of IoT devices, social media platforms, e-commerce transactions, and other digital sources continuously enriches the data pool available for AI analysis. This vast and diverse data landscape allows AI systems to learn from an unprecedented range of experiences, making them more capable of understanding complex patterns and providing valuable insights. Big data analytics, coupled with AI, enables organizations to unlock previously hidden opportunities, optimize operations, and gain a competitive edge. Moreover, data-sharing initiatives and open data platforms are further expanding the availability of data for AI development. As data continues to grow in volume and variety, the AI market will thrive, with applications ranging from personalized recommendations and predictive maintenance to climate modeling and scientific research.

Supportive Regulatory and Government Initiatives

Government support and regulatory initiatives are pivotal drivers of the global artificial intelligence market. Recognizing the strategic importance of AI for economic growth and innovation, governments around the world are taking proactive steps to foster its development and responsible adoption. These initiatives include funding for AI research and development, the establishment of AI research centers and institutes, and the formulation of policies and regulations that promote AI's ethical use and safety. Governments are also investing in AI education and workforce development to ensure a skilled talent pool capable of harnessing AI's potential. Furthermore, international collaborations are emerging to address AI's global challenges, such as data privacy and ethical considerations. These collaborative efforts foster a supportive environment for AI innovation and facilitate cross-border partnerships, driving the growth of the global AI market.

Key Market Challenges

Ethical and Regulatory Concerns in AI Adoption

One of the foremost challenges confronting the global AI market is the complex landscape of ethical and regulatory concerns associated with AI adoption. As AI technologies continue to proliferate and play an increasingly pivotal role in critical decision-making processes across various sectors, the need to address these concerns becomes paramount. Algorithmic bias and fairness represent a central ethical concern. AI systems trained on historical data may inadvertently perpetuate biases present in that data, leading to discriminatory outcomes in areas such as hiring, lending, and criminal justice. These biases can result in unfair advantages or disadvantages for certain groups, potentially reinforcing existing inequalities. Addressing algorithmic bias requires meticulous data curation and the development of fair and inclusive AI models, which poses a significant challenge for developers.

Privacy concerns also loom large in the AI landscape. AI systems often require access to vast amounts of personal and sensitive data to provide personalized recommendations and insights. The misuse or mishandling of this data can lead to privacy breaches and violations of data protection regulations like GDPR and CCPA. Striking a balance between providing the benefits of AI-driven personalization and safeguarding individual privacy is a delicate and ongoing challenge. The transparency and interpretability of AI models represent additional hurdles. As AI systems make decisions that impact individuals and society, there is a growing demand for transparency in AI decision-making processes. Explainable AI (XAI) techniques are being developed to provide understandable and interpretable AI models, allowing users to grasp how AI-generated insights and decisions are reached. However, achieving a satisfactory level of transparency while maintaining model performance remains a complex challenge. Regulatory frameworks for AI are still in their infancy and vary widely across regions and countries. Developing comprehensive and effective regulations that account for the rapid pace of AI innovation is a formidable challenge. Balancing innovation with necessary safeguards is a delicate task, and achieving global consensus on ethical and regulatory standards for AI is an ongoing process.

Furthermore, the ethical use of AI in autonomous systems, such as self-driving cars and autonomous weapons, poses unique challenges. Ensuring that these systems operate safely and adhere to ethical principles is a critical concern that requires collaboration among industry, government, and academia.

Data Quality and Accessibility

Data quality and accessibility represent another significant challenge in the global AI market. AI systems heavily rely on high-quality data for training, validation, and testing. However, ensuring the availability of clean, representative, and diverse data can be a formidable obstacle, particularly for smaller organizations and in niche domains. Data bias is a critical issue. Biased training data can lead to AI models that produce biased results, reinforcing stereotypes and inequalities. For example, if a facial recognition system is predominantly trained on data from one ethnicity, it may perform poorly on individuals from other ethnicities, leading to unfair and inaccurate outcomes. Identifying and mitigating data bias is a continuous challenge that requires rigorous data preprocessing and ongoing monitoring. Data labeling and annotation are resource-intensive processes. Training data often needs to be labeled to facilitate supervised machine learning, and obtaining high-quality annotations can be time-consuming and costly. This is especially challenging for specialized domains or languages with limited annotated datasets.

Data privacy regulations, such as GDPR in Europe, introduce additional complexities. These regulations impose strict requirements on the collection, storage, and processing of personal data. Complying with these regulations while harnessing the benefits of AI presents a significant challenge for organizations that operate globally. Data accessibility is also a concern. Some valuable data sources may be locked behind proprietary systems, restricted access, or data-sharing agreements, limiting their availability for AI research and development. Promoting open data initiatives and ensuring fair access to data can help alleviate this challenge, but it requires concerted efforts from data providers and policymakers. Furthermore, managing the sheer volume of data can be overwhelming. As data continues to grow exponentially, organizations face challenges in data storage, processing, and management. Scalable infrastructure and efficient data handling techniques are essential to harness the full potential of AI approaches.

Key Market Trends

AI-Powered Automation and Autonomous Systems

One of the prominent trends shaping the global AI market is the widespread adoption of AI-powered automation and the development of autonomous systems across various industries. AI-driven automation is revolutionizing the way businesses operate by optimizing processes, increasing efficiency, and reducing costs. Industries such as manufacturing, logistics, and customer service are witnessing significant transformations. In manufacturing, AI-enabled robotic systems are automating tasks

ranging from product assembly to quality control. These robots are equipped with computer vision and machine learning algorithms, allowing them to adapt to changing conditions and handle complex tasks with precision. As a result, manufacturers can improve production speed, reduce errors, and enhance product quality. Logistics and supply chain management are also benefiting from AI-driven automation. AI-powered algorithms analyze large volumes of data to optimize route planning, inventory management, and demand forecasting. Autonomous delivery vehicles and drones are being deployed to streamline last-mile delivery, reducing delivery times and costs. In the customer service sector, chatbots and virtual assistants are becoming increasingly sophisticated, providing instant responses to customer inquiries and resolving issues efficiently. These AI-driven systems are available 24/7, improving customer experiences and reducing the workload on human agents.

Moreover, the development of autonomous systems, including self-driving cars and unmanned aerial vehicles (UAVs), continues to advance. AI technologies play a central role in enabling these systems to perceive their environment, make real-time decisions, and navigate safely. The automotive industry is witnessing fierce competition among tech giants and automakers to bring autonomous vehicles to market, promising safer and more convenient transportation. The trend towards AI-powered automation and autonomous systems is expected to continue, with broader adoption across industries. As AI algorithms become more capable of handling complex and dynamic environments, we can anticipate further advancements in automation and autonomy, ultimately reshaping industries and improving the efficiency of various processes.

Ethical AI and Responsible AI Adoption

Ethical considerations and responsible AI adoption have emerged as significant trends in the global AI market. As AI technologies become increasingly integrated into daily life and critical decision-making processes, there is growing awareness of the need to address ethical concerns and ensure responsible AI development and deployment. One of the key ethical concerns in AI is algorithmic bias. AI systems can inadvertently reflect the biases present in their training data, leading to discriminatory outcomes in areas such as hiring, lending, and criminal justice. To combat this, organizations are placing a greater emphasis on data quality and fairness in AI algorithms. They are also implementing transparency measures, such as explainable AI (XAI) techniques, to provide insights into how AI decisions are made.

Additionally, data privacy and security are paramount concerns in the AI landscape. As AI systems rely on vast amounts of data, there is a need to safeguard sensitive

information and adhere to data protection regulations such as GDPR and CCPA. Encryption, federated learning, and privacy-preserving AI techniques are being developed to address these concerns. Responsible AI adoption involves ensuring that AI systems are used in ways that align with societal values and legal frameworks. Governments and industry organizations are actively formulating guidelines and regulations to promote responsible AI development and deployment. Companies are also establishing ethics committees and conducting impact assessments to evaluate the ethical implications of their AI projects.

Furthermore, AI transparency and interpretability are gaining importance. As AI systems make decisions that affect individuals and society, there is a demand for transparency in AI decision-making processes. Explainable AI (XAI) techniques aim to provide understandable and interpretable AI models, helping users trust and understand AI-generated insights and decisions. The trend towards ethical AI and responsible AI adoption reflects a growing awareness of the ethical and societal implications of AI technology. This trend will continue to shape the AI market, with organizations and governments prioritizing ethical considerations in AI development and usage.

Edge AI and Edge Computing

Edge AI, the deployment of artificial intelligence algorithms on edge devices rather than in centralized data centers, is a significant trend reshaping the global AI market. Edge computing, combined with AI, enables real-time data processing and decision-making at the device level, reducing latency and improving the efficiency of AI applications.

One of the primary drivers of edge AI is the proliferation of IoT (Internet of Things) devices. These devices generate vast amounts of data at the edge of networks, making it impractical to transmit all data to centralized data centers for processing. Edge AI solutions bring AI capabilities directly to these devices, allowing them to analyze data locally and respond in real-time. This is crucial for applications like autonomous vehicles, industrial automation, and smart cities, where split-second decisions are critical. Edge AI is also relevant in industries where low-latency, offline AI processing is required. For example, in healthcare, edge AI can be used for medical imaging analysis on portable devices, enabling faster diagnosis and treatment planning. In retail, edge AI can enhance customer experiences by providing real-time product recommendations without relying on a constant internet connection.

Moreover, edge AI addresses privacy and security concerns by keeping sensitive data local, reducing the risk of data breaches associated with data transmission to central

servers. It also conserves bandwidth and reduces operational costs. The trend towards edge AI is expected to continue as more industries recognize the advantages of real-time, localized AI processing. As AI algorithms become more efficient and capable of running on resource-constrained edge devices, we can anticipate broader adoption of edge AI across various sectors, driving innovation and transforming industries. decision-making.

Segmental Insights

Application Insights

Based on application, the computer vision segment emerges as the predominant segment, exhibiting unwavering dominance projected throughout the forecast period. Computer vision, with its ability to enable machines to interpret and understand visual information from the world, has revolutionized industries across the board. From autonomous vehicles and facial recognition systems to healthcare diagnostics and industrial quality control, computer vision applications are reshaping how we interact with technology. The proliferation of cameras and sensors, combined with advances in deep learning and neural networks, has propelled computer vision to the forefront of AI innovation. Its pervasive influence is set to deepen further as industries find increasingly creative and practical uses for visual data analysis. Thus, the computer vision segment not only maintains its commanding position but also signifies the transformative potential of AI in revolutionizing how machines perceive and interpret the visual world.

End User Insights

Based on end user, the healthcare and life sciences segment emerge as a formidable frontrunner, exerting its dominance and shaping the market's trajectory throughout the forecast period. The applications of artificial intelligence in healthcare are nothing short of revolutionary, ranging from disease diagnosis, drug discovery, and personalized medicine to patient care optimization and administrative streamlining. AI-driven solutions are enhancing the accuracy and efficiency of medical procedures, facilitating early disease detection, and significantly improving patient outcomes. Moreover, the convergence of AI with genomics and pharmaceuticals is expediting drug development processes and creating more targeted and effective treatments. As the healthcare industry increasingly recognizes the transformative potential of AI, it continues to drive innovation and set the pace for AI adoption in other sectors. Thus, the healthcare and life sciences segment not only holds its dominant position but also signifies AI's profound impact on improving human well-being and the overall quality of healthcare

delivery.

Regional Insights

North America firmly establishes itself as a commanding presence within the global Artificial Intelligence market, affirming its preeminent position, and highlighting its pivotal role in shaping the industry's course. This dominance is a testament to the region's unparalleled innovation ecosystem, which encompasses Silicon Valley's tech giants, cutting-edge research institutions, and a thriving startup culture. North America's AI landscape thrives on a convergence of factors, including a robust pool of talent, access to substantial investment capital, and a culture that fosters disruptive technologies. The pivotal role of North America in shaping the AI industry cannot be overstated. The region has been at the forefront of AI research, development, and commercialization, propelling applications across sectors such as healthcare, finance, automotive, and more. With a rich history of innovation, North American companies have introduced groundbreaking AI solutions that have set global standards and transformed the way businesses operate. Moreover, the presence of a diverse range of industries has allowed AI to permeate multiple sectors, making North America a true hub for AI-powered innovation. As AI continues to evolve and reshape the global landscape, North America remains at the helm, steering the course of the industry's development. Its pioneering spirit, coupled with a commitment to responsible AI deployment and ethics, reinforces North America's enduring leadership in the global AI market, promising continued innovation and groundbreaking advancements in the years to come.

Key Market Players

IBM Corporation

Intel Corporation

Microsoft Corporation

Google LLC (Alphabet Inc.)

Amazon Web Services Inc. (amazon.com Inc.)

Oracle Corporation

Salesforce Inc.

SAP SE

SAS Institute Inc.

Cisco Systems Inc.

Report Scope:

In this report, the global Artificial Intelligence market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Artificial Intelligence Market, By Component:

Hardware

Software

Services

Global Artificial Intelligence Market, By Application:

Image Recognition

Natural Language Processing

Speech Recognition

Computer Vision

Other

Global Artificial Intelligence Market, By Business Function:

Finance

Security

Human Resource

Law

Marketing & Sales

Operations

Supply Chain Management

Global Artificial Intelligence Market, By End User:

BFSI

Fashion & Retail

Healthcare & Life Sciences

Manufacturing

Automotive

Aerospace and Defense

Construction

Other

Global Artificial Intelligence Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Artificial Intelligence Market.

Available Customizations:

Global Artificial Intelligence market report with the given market data, Tech Sci 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).

Contents

1. PRODUCT 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. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL ARTIFICIAL INTELLIGENCE MARKET

5. VOICE OF CUSTOMER

6. GLOBAL ARTIFICIAL INTELLIGENCE MARKET OVERVIEW

7. GLOBAL ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component (Hardware, Software, Services)
 - 7.2.2. By Application (Image Recognition, Natural Language Processing, Speech Recognition, Computer Vision, Other)
 - 7.2.3. By Business Function (Finance, Security, Human Resource, Law, Marketing & Sales, Operations, Supply Chain Management)
 - 7.2.4. By End User (BFSI, Fashion and Retail, Healthcare and Life Sciences,

Manufacturing, Automotive, Aerospace and Defense, Construction, Other)

7.2.5. By Region

7.2.6. By Company (2022)

7.3. Market Map

8. NORTH AMERICA ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Application

8.2.3. By Business Function

8.2.4. By End User

8.3. North America: Country Analysis

8.3.1. United States Artificial Intelligence 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 Component

8.3.1.2.2. By Application

8.3.1.2.3. By Business Function

8.3.1.2.4. By End User

8.3.2. Canada Artificial Intelligence 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 Component

8.3.2.2.2. By Application

8.3.2.2.3. By Business Function

8.3.2.2.4. By End User

8.3.3. Mexico Artificial Intelligence 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 Component

8.3.3.2.2. By Application

8.3.3.2.3. By Business Function

8.3.3.2.4. By End User

9. EUROPE ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By Application

9.2.3. By Business Function

9.2.4. By End User

9.3. Europe: Country Analysis

9.3.1. Germany Artificial Intelligence Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Component

9.3.1.2.2. By Application

9.3.1.2.3. By Business Function

9.3.1.2.4. By End User

9.3.2. United Kingdom Artificial Intelligence 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 Component

9.3.2.2.2. By Application

9.3.2.2.3. By Business Function

9.3.2.2.4. By End User

9.3.3. France Artificial Intelligence 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 Component

9.3.3.2.2. By Application

9.3.3.2.3. By Business Function

9.3.3.2.4. By End User

9.3.4. Spain Artificial Intelligence 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 Component
- 9.3.4.2.2. By Application
- 9.3.4.2.3. By Business Function
- 9.3.4.2.4. By End User
- 9.3.5. Italy Artificial Intelligence 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 Component
 - 9.3.5.2.2. By Application
 - 9.3.5.2.3. By Business Function
 - 9.3.5.2.4. By End User

10. SOUTH AMERICA ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component
 - 10.2.2. By Application
 - 10.2.3. By Business Function
 - 10.2.4. By End User
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Artificial Intelligence 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 Component
 - 10.3.1.2.2. By Application
 - 10.3.1.2.3. By Business Function
 - 10.3.1.2.4. By End User
 - 10.3.2. Argentina Artificial Intelligence 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 Component
 - 10.3.2.2.2. By Application
 - 10.3.2.2.3. By Business Function
 - 10.3.2.2.4. By End User

10.3.3. Colombia Artificial Intelligence 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 Component

10.3.3.2.2. By Application

10.3.3.2.3. By Business Function

10.3.3.2.4. By End User

11. MIDDLE EAST & AFRICA ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Component

11.2.2. By Application

11.2.3. By Business Function

11.2.4. By End User

11.3. Middle East & America: Country Analysis

11.3.1. Israel Artificial Intelligence 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 Component

11.3.1.2.2. By Application

11.3.1.2.3. By Business Function

11.3.1.2.4. By End User

11.3.2. Qatar Artificial Intelligence 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 Component

11.3.2.2.2. By Application

11.3.2.2.3. By Business Function

11.3.2.2.4. By End User

11.3.3. UAE Artificial Intelligence 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 Component
- 11.3.3.2.2. By Application
- 11.3.3.2.3. By Business Function
- 11.3.3.2.4. By End User
- 11.3.4. Saudi Arabia Artificial Intelligence 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 Component
 - 11.3.4.2.2. By Application
 - 11.3.4.2.3. By Business Function
 - 11.3.4.2.4. By End User

12. ASIA PACIFIC ARTIFICIAL INTELLIGENCE MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Component
 - 12.2.2. By Application
 - 12.2.3. By Business Function
 - 12.2.4. By End User
- 12.3. Asia Pacific: Country Analysis
 - 12.3.1. China Artificial Intelligence Market Outlook
 - 12.3.1.1. Market Size & Forecast
 - 12.3.1.1.1. By Value
 - 12.3.1.2. Market Share & Forecast
 - 12.3.1.2.1. By Component
 - 12.3.1.2.2. By Application
 - 12.3.1.2.3. By Business Function
 - 12.3.1.2.4. By End User
 - 12.3.2. Japan Artificial Intelligence Market Outlook
 - 12.3.2.1. Market Size & Forecast
 - 12.3.2.1.1. By Value
 - 12.3.2.2. Market Share & Forecast
 - 12.3.2.2.1. By Component
 - 12.3.2.2.2. By Application
 - 12.3.2.2.3. By Business Function
 - 12.3.2.2.4. By End User

12.3.3. South Korea Artificial Intelligence Market Outlook

12.3.3.1. Market Size & Forecast

12.3.3.1.1. By Value

12.3.3.2. Market Share & Forecast

12.3.3.2.1. By Component

12.3.3.2.2. By Application

12.3.3.2.3. By Business Function

12.3.3.2.4. By End User

12.3.4. India Artificial Intelligence Market Outlook

12.3.4.1. Market Size & Forecast

12.3.4.1.1. By Value

12.3.4.2. Market Share & Forecast

12.3.4.2.1. By Component

12.3.4.2.2. By Application

12.3.4.2.3. By Business Function

12.3.4.2.4. By End User

12.3.5. Australia Artificial Intelligence Market Outlook

12.3.5.1. Market Size & Forecast

12.3.5.1.1. By Value

12.3.5.2. Market Share & Forecast

12.3.5.2.1. By Component

12.3.5.2.2. By Application

12.3.5.2.3. By Business Function

12.3.5.2.4. By End User

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. IBM Corporation

15.1.1. Business Overview

15.1.2. Key Financials & Revenue

15.1.3. Key Contact Person

15.1.4. Headquarters Address

- 15.1.5. Key Product/Service Offered
- 15.2. Intel Corporation
 - 15.2.1. Business Overview
 - 15.2.2. Key Financials & Revenue
 - 15.2.3. Key Contact Person
 - 15.2.4. Headquarters Address
 - 15.2.5. Key Product/Service Offered
- 15.3. Microsoft Corporation
 - 15.3.1. Business Overview
 - 15.3.2. Key Financials & Revenue
 - 15.3.3. Key Contact Person
 - 15.3.4. Headquarters Address
 - 15.3.5. Key Product/Service Offered
- 15.4. Google LLC (Alphabet Inc.)
 - 15.4.1. Business Overview
 - 15.4.2. Key Financials & Revenue
 - 15.4.3. Key Contact Person
 - 15.4.4. Headquarters Address
 - 15.4.5. Key Product/Service Offered
- 15.5. Amazon Web Services Inc. (amazon.com Inc.)
 - 15.5.1. Business Overview
 - 15.5.2. Key Financials & Revenue
 - 15.5.3. Key Contact Person
 - 15.5.4. Headquarters Address
 - 15.5.5. Key Product/Service Offered
- 15.6. Oracle Corporation
 - 15.6.1. Business Overview
 - 15.6.2. Key Financials & Revenue
 - 15.6.3. Key Contact Person
 - 15.6.4. Headquarters Address
 - 15.6.5. Key Product/Service Offered
- 15.7. Salesforce Inc.
 - 15.7.1. Business Overview
 - 15.7.2. Key Financials & Revenue
 - 15.7.3. Key Contact Person
 - 15.7.4. Headquarters Address
 - 15.7.5. Key Product/Service Offered
- 15.8. SAP SE
 - 15.8.1. Business Overview

- 15.8.2. Key Financials & Revenue
- 15.8.3. Key Contact Person
- 15.8.4. Headquarters Address
- 15.8.5. Key Product/Service Offered
- 15.9. SAS Institute Inc.
 - 15.9.1. Business Overview
 - 15.9.2. Key Financials & Revenue
 - 15.9.3. Key Contact Person
 - 15.9.4. Headquarters Address
 - 15.9.5. Key Product/Service Offered
- 15.10. Cisco Systems Inc.
 - 15.10.1. Business Overview
 - 15.10.2. Key Financials & Revenue
 - 15.10.3. Key Contact Person
 - 15.10.4. Headquarters Address
 - 15.10.5. Key Product/Service Offered

16. STRATEGIC RECOMMENDATIONS

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