Growing at 23.6% CAGR | AI in Cybersecurity Market Reach USD 154.8 Billion by 2032 Globally

WILMINGTON, DE, UNITED STATES, October 15, 2025 /EINPresswire.com/ -- Allied Market Research published a new report, titled, "Growing at 23.6% CAGR | AI in Cybersecurity Market Reach USD 154.8 Billion by 2032 Globally." The report offers an extensive analysis of key growth strategies, drivers, opportunities, key segments, Porter's Five Forces analysis, and competitive landscape. This study is a helpful source of information for market players, investors, VPs, stakeholders, and new entrants to gain a thorough understanding of the industry and determine steps to be taken to gain competitive advantage.

The global AI in cybersecurity market size was valued at USD 19.2 billion in 2022, and is projected to reach USD 154.8 billion by 2032, growing at a CAGR of 23.6% from 2023 to 2032.

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Driving Factors

The global AI in cybersecurity market growth is attributed to factors such as the rise in demand for enhanced security solutions, the increasing number of cyber-attacks in several industries, and the rising adoption of digitalization in security solutions. However, the high implementation cost of AI in cybersecurity solutions, and the dearth of skilled cybersecurity experts and education hamper market growth. Furthermore, increasing investments and innovation strategies and the surge in demand for real-time threat detection is anticipated to provide lucrative growth opportunities for the global AI in cybersecurity market in the upcoming years.

Market Segmentation

The AI in cybersecurity market is segmented into offering, deployment mode, security type, technology industry vertical, and region. By offering, it is bifurcated into hardware, software and service. By deployment mode, it is divided into on-premises and cloud. By security type, it is categorized into network security, endpoint security, application security, and cloud security. By technology, it is segregated into machine learning (ML), natural language processing (NLP), and content-aware computing. By industry vertical, the market is classified into BFSI, retail and e-commerce, healthcare, automotive & transportation, government and defense, manufacturing,

and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Players

Major Players such as NVIDIA Corporation, Cisco Systems, Inc., Amazon Web Services, Inc., IBM Corporation, Microsoft Corporation, Micron Technology Inc., Samsung Electronics Co. Ltd., Gen Digital Inc., Intel Corporation, Palo Alto Networks, Inc.

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Based on region, North America garnered the major market share in 2022, holding nearly two-fifths of the global AI in cybersecurity market revenue. The region's robust industrial sector, including manufacturing, automotive, and logistics, has been an early adopter of AI in cybersecurity that is anticipated to propel the growth of the market, which is further anticipated to propel the growth of the market in this region. However, the Asia-Pacific region is expected to maintain its dominance during the forecast period. The same region would also cite the fastest CAGR of 27.7% from 2023 to 2032. As the key players are investing heavily in automation and AI in cybersecurity to enhance productivity, improve efficiency, and address labor shortages are expected to provide lucrative growth opportunities for the market in this region, which is expected to provide lucrative growth opportunities for the market in this region.

Based on offering, the software segment held the highest market share in 2022, accounting for nearly half of the global AI in cybersecurity market revenue, and is estimated to retain its lion's share throughout the forecast period. The same segment would also display the fastest CAGR of 26.0% during the forecast period. The adoption of AI in cybersecurity continues to grow across various industries and rising demand for software services to build and deploy new security systems.

Based on deployment type, the on-premise segment accounted for the largest share in 2022, contributing to more than three-fifths of the global AI in cybersecurity market revenue, and is expected to maintain its lead position during the forecast period. As on-premise deployment mode may provide an extra level of security to the organizations. These factors further drive the demand for this segment in the global market. However, the cloud segment would portray the fastest CAGR of 26.2% from 2023 to 2032. This is due to the increase in the adoption and susceptibility of wireless networks, as facilities increasingly rely on wireless networks for data transfer.

Based on security type, the network security segment held the highest market share in 2022, accounting for nearly two-fifths of the global AI in cybersecurity market revenue, and is projected to rule the roost by 2032. Machine learning in security continually learns by examining data to locate trends, enabling users to more effectively detect malware in encrypted communications and identify insider risks. However, the cloud security segment is projected to manifest the

highest CAGR of 27.4% from 2023 to 2032. The increasing demand for effective cloud-based cybersecurity to protect customer privacy is further expected to propel global market growth.

Based on technology, the machine learning (ML) segment held the highest market share in 2022, accounting for more than half of the global AI in cybersecurity market revenue, and is estimated to maintain its leadership status throughout the forecast period. Machine learning in security continually learns by examining data to locate trends, enabling users to more effectively detect malware in encrypted communications and identify insider risks. However, the context-aware computing segment is projected to manifest the highest CAGR of 27.1% from 2023 to 2032. The increasing demand for effective cloud-based cybersecurity to protect customer privacy is further expected to propel global market growth.

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COVID-19 Scenario

 The COVID-19 pandemic had a significant impact on the global AI in cybersecurity industry. The increasing adoption of real-time threat detection solutions in security operations has proliferated the demand for AI in cybersecurity market. It is the key to optimizing cyber security processes with the integration of advanced technologies such as AI, ML, and including cloud solutions.
 Furthermore, there is a rise in the need for proactive and prompt threat identification and response in organizations, as cyber-attacks expand and become more complex and prevalent. Leveraging automation trends and the use of smart data in security solutions could lead to advanced real-time threat protection. These factors have propelled the growth of AI in cybersecurity solutions among industries.

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Lastly, this report provides market intelligence most comprehensively. The report structure has been kept such that it offers maximum business value. It provides critical insights into market dynamics and will enable strategic decision-making for existing market players as well as those willing to enter the market.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies. This helps us dig out market data that helps us generate accurate research data tables and confirm utmost accuracy in our market forecasting. Every data company in the domain is concerned. Our secondary data procurement methodology includes deep presented in the reports published by us is extracted through primary interviews with top officials from leading online and offline research and discussion with knowledgeable professionals and analysts in the industry.

Contact:
David Correa
1209 Orange Street,
Corporation Trust Center,
Wilmington, New Castle,
Delaware 19801 USA.
Int'l: +1-503-894-6022
Toll Free: +1-800-792-5285
UK: +44-845-528-1300 | India (Pune): +91-20-66346060

David Correa
Allied Market Research
+ + + + + +1 800-792-5285
email us here
Visit us on social media:
LinkedIn
Facebook
YouTube
X

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