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Neuromorphic Computing Market Size, Trends, Analysis, and Outlook By End-User (Consumer Electronics, Automotive, Healthcare, Military & Defense, Others), By Application (Signal Processing, Image Processing, Data Processing, Object Detection, Others), By Deployment (Edge, Cloud), By Component (Hardware, Software, Services), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global Neuromorphic Computing market size is poised to register 98.67% growth (CAGR) from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Neuromorphic Computing market By End-User (Consumer Electronics, Automotive, Healthcare, Military & Defense, Others), By Application (Signal Processing, Image Processing, Data Processing, Object Detection, Others), By Deployment (Edge, Cloud), By Component (Hardware, Software, Services).

The future of neuromorphic computing is guided by advancements in computer science, artificial intelligence, and neuroscience-inspired hardware architectures aimed at mimicking the parallel processing, low power consumption, and adaptive learning capabilities of the human brain. Key trends include the development of neuromorphic chips, spiking neural networks, and memristive devices that leverage principles of synaptic plasticity, neural network connectivity, and event-driven computation to perform complex cognitive tasks, pattern recognition, and sensorimotor integration with high efficiency and scalability. Additionally, there is a growing emphasis on the integration of neuromorphic computing systems with conventional von Neumann architectures, deep

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learning frameworks, and neuromorphic sensors to enable hybrid processing, real-time inference, and sensor fusion for applications in robotics, autonomous vehicles, edge computing, and brain-computer interfaces. Moreover, advancements in neuromorphic hardware design, neuromorphic algorithms, and neuromorphic software frameworks drive continuous innovation and adoption of neuromorphic computing technologies in research laboratories, industrial R&D, and commercial applications requiring energy-efficient, brain-inspired computing solutions..

Neuromorphic Computing Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Neuromorphic Computing market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Neuromorphic Computing survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Neuromorphic Computing industry.

Key market trends defining the global Neuromorphic Computing demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Neuromorphic Computing Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Neuromorphic Computing industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Neuromorphic Computing companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Neuromorphic Computing industry

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Leading Neuromorphic Computing companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Neuromorphic Computing companies.

Neuromorphic Computing Market Study- Strategic Analysis Review

The Neuromorphic Computing market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Neuromorphic Computing Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Neuromorphic Computing industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Neuromorphic Computing Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe,

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the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Neuromorphic Computing Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Neuromorphic Computing market segments. Similarly, Strong end-user demand is encouraging Canadian Neuromorphic Computing companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Neuromorphic Computing market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Neuromorphic Computing Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Neuromorphic Computing industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Neuromorphic Computing market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Neuromorphic Computing Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Neuromorphic Computing in Asia Pacific. In particular, China, India, and South East Asian Neuromorphic Computing markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market.

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Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Neuromorphic Computing Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Neuromorphic Computing Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Neuromorphic Computing market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Neuromorphic Computing.

Neuromorphic Computing Market Company Profiles

The global Neuromorphic Computing market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Brain Corp, CEA-Leti, General Vision Inc, Hewlett Packard Company, HRL Laboratories Llc, Intel Corp, International Business Machines Corp, Knowm Inc, Qualcomm Technologies Inc, Samsung Electronics Co. Ltd, Vicarious FPC Inc.

Recent Neuromorphic Computing Market Developments

The global Neuromorphic Computing market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Neuromorphic Computing Market Report Scope

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Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

- Pricing Analysis
- Value Chain Analysis
- SWOT Profile
- Market Dynamics- Trends, Drivers, Challenges
- Porter’s Five Forces Analysis
- Macroeconomic Impact Analysis
- Case Scenarios- Low, Base, High

Market Segmentation:

By Type

Stationary 3D and 4D Ultrasound Devices

Portable 3D and 4D Ultrasound Devices

By Display

Color Ultrasound

B/W Ultrasound

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By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

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Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Brain Corp

CEA-Leti

General Vision Inc

Hewlett Packard Company

HRL Laboratories Llc

Intel Corp

International Business Machines Corp

Knowm Inc

Qualcomm Technologies Inc

Samsung Electronics Co. Ltd

Vicarious FPC Inc

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Contents

1. EXECUTIVE SUMMARY

1.1 Neuromorphic Computing Market Overview and Key Findings, 2024
1.2 Neuromorphic Computing Market Size and Growth Outlook, 2021- 2030
1.3 Neuromorphic Computing Market Growth Opportunities to 2030
1.4 Key Neuromorphic Computing Market Trends and Challenges
  1.4.1 Neuromorphic Computing Market Drivers and Trends
  1.4.2 Neuromorphic Computing Market Challenges
1.5 Competitive Landscape and Key Players
1.6 Competitive Analysis- Growth Strategies Adopted by Leading Neuromorphic Computing Companies

2. NEUROMORPHIC COMPUTING MARKET SIZE OUTLOOK TO 2030

2.1 Neuromorphic Computing Market Size Outlook, USD Million, 2021- 2030
2.2 Neuromorphic Computing Incremental Market Growth Outlook, %, 2021- 2030
2.3 Segment Snapshot, 2024

3. NEUROMORPHIC COMPUTING MARKET- STRATEGIC ANALYSIS REVIEW

3.1 Porter's Five Forces Analysis
* Threat of New Entrants
* Threat of Substitutes
* Intensity of Competitive Rivalry
* Bargaining Power of Buyers
* Bargaining Power of Suppliers
3.2 Value Chain Analysis
3.3 SWOT Analysis

4. NEUROMORPHIC COMPUTING MARKET SEGMENTATION ANALYSIS AND OUTLOOK

4.1 Market Segmentation and Scope
4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
By Type
Stationary 3D and 4D Ultrasound Devices
Portable 3D and 4D Ultrasound Devices

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By Display
Color Ultrasound
B/W Ultrasound
By Portability
Trolley or Cart-Based Ultrasound Systems
Compact/Handheld Ultrasound Systems
Point-of-Pare (PoC) Ultrasound Systems
By Application
Radiology or General Imaging
Obstetrics or Gynecology
Cardiology
Urology
Vascular
Orthopedic and Musculoskeletal
Pain Management
Others
By End-User
Hospitals
Surgical Centers and Diagnostic Centers
Maternity Centers
Ambulatory Care Centers
Research and Academia
Others
4.3 Growth Prospects and Niche Opportunities, 2023- 2030
4.4 Regional comparison of Market Growth, CAGR, 2023-2030

5. REGION-WISE MARKET OUTLOOK TO 2030

5.1 Key Findings for Asia Pacific Neuromorphic Computing Market, 2025
5.2 Asia Pacific Neuromorphic Computing Market Size Outlook by Type, 2021- 2030
5.3 Asia Pacific Neuromorphic Computing Market Size Outlook by Application, 2021- 2030
5.4 Key Findings for Europe Neuromorphic Computing Market, 2025
5.5 Europe Neuromorphic Computing Market Size Outlook by Type, 2021- 2030
5.6 Europe Neuromorphic Computing Market Size Outlook by Application, 2021- 2030
5.7 Key Findings for North America Neuromorphic Computing Market, 2025
5.8 North America Neuromorphic Computing Market Size Outlook by Type, 2021- 2030
5.9 North America Neuromorphic Computing Market Size Outlook by Application, 2021- 2030

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info@marketpublishers.com

5.10 Key Findings for South America Neuromorphic Computing Market, 2025
5.11 South America Pacific Neuromorphic Computing Market Size Outlook by Type, 2021- 2030
5.12 South America Neuromorphic Computing Market Size Outlook by Application, 2021- 2030
5.13 Key Findings for Middle East and Africa Neuromorphic Computing Market, 2025
5.14 Middle East Africa Neuromorphic Computing Market Size Outlook by Type, 2021-2030
5.15 Middle East Africa Neuromorphic Computing Market Size Outlook by Application, 2021- 2030

6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Neuromorphic Computing Market Size Outlook and Revenue Growth Forecasts
6.2 US Neuromorphic Computing Industry Drivers and Opportunities
6.3 Canada Market Size Outlook and Revenue Growth Forecasts
6.4 Canada Neuromorphic Computing Industry Drivers and Opportunities
6.6 Mexico Market Size Outlook and Revenue Growth Forecasts
6.6 Mexico Neuromorphic Computing Industry Drivers and Opportunities
6.7 Germany Market Size Outlook and Revenue Growth Forecasts
6.8 Germany Neuromorphic Computing Industry Drivers and Opportunities
6.9 France Market Size Outlook and Revenue Growth Forecasts
6.10 France Neuromorphic Computing Industry Drivers and Opportunities
6.11 UK Market Size Outlook and Revenue Growth Forecasts
6.12 UK Neuromorphic Computing Industry Drivers and Opportunities
6.13 Spain Market Size Outlook and Revenue Growth Forecasts
6.14 Spain Neuromorphic Computing Industry Drivers and Opportunities
6.16 Italy Market Size Outlook and Revenue Growth Forecasts
6.16 Italy Neuromorphic Computing Industry Drivers and Opportunities
6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts
6.18 Rest of Europe Neuromorphic Computing Industry Drivers and Opportunities
6.19 China Market Size Outlook and Revenue Growth Forecasts
6.20 China Neuromorphic Computing Industry Drivers and Opportunities
6.21 India Market Size Outlook and Revenue Growth Forecasts
6.22 India Neuromorphic Computing Industry Drivers and Opportunities
6.23 Japan Market Size Outlook and Revenue Growth Forecasts
6.24 Japan Neuromorphic Computing Industry Drivers and Opportunities
6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
6.26 South Korea Neuromorphic Computing Industry Drivers and Opportunities

+44 20 8123 2220
info@marketpublishers.com

6.27 Australia Market Size Outlook and Revenue Growth Forecasts
6.28 Australia Neuromorphic Computing Industry Drivers and Opportunities
6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
6.30 South East Asia Neuromorphic Computing Industry Drivers and Opportunities
6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
6.32 Rest of Asia Pacific Neuromorphic Computing Industry Drivers and Opportunities
6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
6.34 Brazil Neuromorphic Computing Industry Drivers and Opportunities
6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
6.36 Argentina Neuromorphic Computing Industry Drivers and Opportunities
6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
6.38 Rest of South America Neuromorphic Computing Industry Drivers and Opportunities
6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
6.40 Middle East Neuromorphic Computing Industry Drivers and Opportunities
6.41 Africa Market Size Outlook and Revenue Growth Forecasts
6.42 Africa Neuromorphic Computing Industry Drivers and Opportunities

7. NEUROMORPHIC COMPUTING MARKET OUTLOOK ACROSS SCENARIOS

7.1 Low Growth Case
7.2 Reference Growth Case
7.3 High Growth Case

8. NEUROMORPHIC COMPUTING COMPANY PROFILES

8.1 Profiles of Leading Neuromorphic Computing Companies in the Market
8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
8.3 Financial Performance and Key Metrics
Brain Corp
CEA-Leti
General Vision Inc
Hewlett Packard Company
HRL Laboratories Llc
Intel Corp
International Business Machines Corp
Knowm Inc
Qualcomm Technologies Inc
Samsung Electronics Co. Ltd

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Vicarious FPC Inc

9. APPENDIX

9.1 Scope of the Report
9.2 Research Methodology and Data Sources
9.3 Glossary of Terms
9.4 Market Definitions
9.5 Contact Information

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