

**Edge AI Software Market by Technology (Generative AI, Machine Learning (ML) (Supervised Learning, Reinforcement Learning), Natural Language Processing (NLP), Computer Vision), Data Modality (Spatial Data, Temporal Data) - Global Forecast to 2030**

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**Report description:**

The Edge AI software market is projected to grow from USD 1.92 billion in 2024 to USD 7.19 billion by 2030, at a compound annual growth rate (CAGR) of 24.7% during the forecast period. The market is anticipated to grow due to Predictive maintenance powered by Edge AI is transforming industrial operations by enabling real-time monitoring and forecasting of equipment failures before they happen, Edge AI is enabling highly personalized experiences for consumers by processing data locally on devices like smartphones, wearables, and smart home systems and Smart grids and energy management systems are benefiting greatly from Edge AI's ability to provide distributed intelligence. However, growth may be restrained by the complexity of deploying and managing machine learning models at the edge, the absence of standard protocols and interoperability between different Edge AI platforms, devices, and ecosystems can slow down adoption and the high initial investment required to build and scale Edge AI infrastructure can be prohibitive for some organizations.

"Edge AI Platform Solutions Leading the Market with Highest CAGR Growth"

Platform solutions are expected to register the highest CAGR growth in the Edge AI software market due to their ability to integrate diverse AI capabilities, streamline deployment, and support scalable applications across industries. These platforms enable seamless development, testing, and deployment of AI models on edge devices, reducing complexity and accelerating time-to-market. Future opportunities lie in leveraging these solutions for autonomous systems, advanced robotics, and distributed IoT ecosystems, where customizable platforms can address specific requirements for real-time analytics, data security, and interoperability, driving adoption across sectors like healthcare, automotive, and industrial automation.

"Predictive Maintenance and Robotics Automation Transforming Manufacturing with Edge AI"

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During the forecast period, the manufacturing sector is anticipated to dominate the Edge AI software market, driven by its adoption for real-time quality control, predictive maintenance, and robotics automation. Edge AI enables manufacturers to process vast amounts of machine data locally, reducing latency and enhancing operational efficiency. Future opportunities include leveraging Edge AI for smart factory solutions, optimizing energy consumption, and enabling autonomous production lines. As manufacturers prioritize Industry 4.0 initiatives and demand localized intelligence for critical operations, the deployment of Edge AI software in this sector will continue to expand rapidly.

"Asia Pacific's rapid edge AI software market growth fueled by innovation and emerging technologies, while North America leads in market size"

Asia Pacific is projected to be the fastest-growing market for Edge AI software during the forecast period, driven by rapid industrialization, increasing adoption of IoT devices, and significant investments in smart city initiatives. The region's growing demand for localized data processing in sectors like manufacturing, retail, and telecommunications further boosts this trend. Meanwhile, North America holds the largest market share due to its early adoption of advanced technologies, strong presence of key players, and robust infrastructure supporting AI deployment. Future opportunities include expanding Edge AI applications in Asia Pacific's emerging markets for autonomous systems and real-time analytics, while North America continues to innovate in areas like healthcare and defense with cutting-edge edge computing solutions.

#### Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the Edge AI software market.

-□By Company: Tier I - 30%, Tier II - 40%, and Tier III - 30%

-□By Designation: C-Level Executives - 35%, D-Level Executives - 25%, and others - 40%

-□By Region: North America - 30%, Europe - 35%, Asia Pacific - 25%, Middle East & Africa - 5%, and Latin America - 5%

The report includes the study of key players offering edge AI software market. It profiles major vendors in the Edge AI software market. The major players in the Edge AI software market include Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US), Synaptics (US), Gorilla Technologies (UK), Intel (US), VEEA (US), Infineon Technologies (German), Intent HQ (UK), Baidu (China), NVIDIA (US), Alibaba Group (Singapore), Bosch Global Software Technologies (India), Azion (US), Blaize (US), ClearBlade (US), Johnson Controls (US), Midokura (Japan), Latent AI (US), Axelera AI (Netherlands), Teraki (Germany), Ekkono (Sweden), Edge Impulse (US), Spectro Cloud (US), Barbara (Spain), Invision AI (US), Horizon Robotics (China), and Kneron (US).

#### Research coverage

This research report categorizes the Edge AI software Market By offering (Software [By Type and By Deployment mode] and Services [Professional services and Managed services]), By data Modality (Visual data, Auditory data, Textual data, Spatial data, Temporal data and Multi-modal data), By Technology (Generative AI and Other AI [Machine learning, Natural language processing, Computer vision and Others]), By End Uses (Manufacturing, Smart cities, BFSI, Healthcare & life sciences, Energy & utilities, Telecommunication, Retail, Automotive, Transportation & logistics, Consumer electronics & devices and Other end uses [IT & ITeS, Education and Agriculture]), and By Region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Edge AI software market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; contracts, partnerships, agreements, new product & service launches, mergers and acquisitions, and recent developments associated with the Edge AI software market. Competitive analysis of upcoming startups in the Edge AI software market ecosystem is covered in this report.

#### Key Benefits of Buying the Report

The report would provide the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall Edge AI software market and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights better to position their business and plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

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- Analysis of key drivers (increasing number of intelligent applications, rising use of IoT applications, increasing adoption of 5G network technology, exponential growth of data volume and network traffic), restraints (Bandwidth limitations resulting from the need for continuous data transfer and limited availability of AI experts), opportunities (growing deployment of TinyML, rising demand of autonomous and connected vehicles, emergence of transformative applications in various fields), and challenges (Need for optimization of edge AI standards, complexity of integrating diverse systems and lack of hardware standards).
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Edge AI software market.
- Market Development: Comprehensive information about lucrative markets - the report analyses the Edge AI software market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Edge AI software market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US), Synaptics (US), Gorilla Technologies (UK), Intel (US), VEEA (US), Infineon Technologies (Germany), Intent HQ (UK), Baidu (China), NVIDIA (US), Alibaba Group (Singapore), Bosch Global Software Technologies (India), Azion (US), Blaize (US), ClearBlade (US), Johnson Controls (US), Midokura (Japan), Latent AI (US), Axelera AI (Netherlands), Teraki (Germany), Ekkono (Sweden), Edge Impulse (US), Spectro Cloud (US), Barbara (Spain), Invision AI (US), Horizon Robotics (China), and Kneron (US), among others in the Edge AI software market. The report also helps stakeholders understand the pulse of the Edge AI software market and provides them with information on key market drivers, restraints, challenges, and opportunities.

## Table of Contents:

1	INTRODUCTION	32
1.1	STUDY OBJECTIVES	32
1.2	MARKET DEFINITION	32
1.2.1	INCLUSIONS AND EXCLUSIONS	33
1.3	STUDY SCOPE	34
1.3.1	MARKETS COVERED	34
1.3.2	YEARS CONSIDERED	35
1.4	CURRENCY CONSIDERED	35
1.5	STAKEHOLDERS	36
1.6	SUMMARY OF CHANGES	36
2	RESEARCH METHODOLOGY	38
2.1	RESEARCH DATA	38
2.1.1	SECONDARY DATA	39
2.1.2	PRIMARY DATA	39
2.1.2.1	Breakup of primary profiles	40
2.1.2.2	Key industry insights	41
2.2	MARKET BREAKUP AND DATA TRIANGULATION	42
2.3	MARKET SIZE ESTIMATION	43
2.3.1	TOP-DOWN APPROACH	43
2.3.2	BOTTOM-UP APPROACH	44
2.4	MARKET FORECAST	47
2.5	RESEARCH ASSUMPTIONS	48
2.6	RESEARCH LIMITATIONS	49
3	EXECUTIVE SUMMARY	50
4	PREMIUM INSIGHTS	58
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN EDGE AI SOFTWARE MARKET	58

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4.2	EDGE AI SOFTWARE MARKET, BY TOP THREE END USES	58
4.3	EDGE AI SOFTWARE MARKET IN NORTH AMERICA, BY TOP THREE DATA MODALITY TYPES AND END USES	59
4.4	EDGE AI SOFTWARE MARKET, BY REGION	59
?		
5	MARKET OVERVIEW AND INDUSTRY TRENDS	60
5.1	INTRODUCTION	60
5.2	MARKET DYNAMICS	60
5.2.1	DRIVERS	60
5.2.1.1	Increasing number of intelligent applications	60
5.2.1.2	Exponential growth of data volume and network traffic	61
5.2.1.3	Rising use of IoT applications	61
5.2.1.4	Increasing adoption of 5G network technology	61
5.2.2	RESTRAINTS	62
5.2.2.1	Bandwidth limitations resulting from need for continuous data transfer	62
5.2.2.2	Limited availability of AI experts	62
5.2.3	OPPORTUNITIES	62
5.2.3.1	Growing deployment of TinyML	62
5.2.3.2	Rising demand for autonomous and connected vehicles	63
5.2.3.3	Emergence of transformative applications in various fields	63
5.2.4	CHALLENGES	63
5.2.4.1	Need for optimization of edge AI standards	63
5.2.4.2	Complexity of integrating diverse systems	64
5.2.4.3	Lack of hardware standards	64
5.3	IMPACT OF GENERATIVE AI ON EDGE AI SOFTWARE MARKET	65
5.3.1	TOP USE CASES AND MARKET POTENTIAL	65
5.3.1.1	Key use cases	65
5.3.1.1.1	Real-time Data Processing and Analysis	66
5.3.1.1.2	Predictive Maintenance	66
5.3.1.1.3	Anomaly Detection	66
5.3.1.1.4	Personalized User Experience	66
5.3.1.1.5	Enhanced Security & Fraud Detection	67
5.3.1.1.6	Scalable AI Models	67
5.4	EDGE AI SOFTWARE MARKET: EVOLUTION	68
5.5	ECOSYSTEM ANALYSIS	70
5.5.1	PLATFORM PROVIDERS	70
5.5.2	SDK PROVIDERS	70
5.5.3	FRAMEWORK & TOOLKIT PROVIDERS	71
5.5.4	SERVICE PROVIDERS	71
5.5.5	TECHNOLOGY PARTNERS/INTEGRATORS	71
5.5.6	END USERS	71
5.6	SUPPLY CHAIN ANALYSIS	72
5.7	INVESTMENT AND FUNDING SCENARIO	73
?		
5.8	CASE STUDY ANALYSIS	75
5.8.1	CASE STUDY 1: LEVERAGING EDGE AI AND GEOSPATIAL ANALYTICS FOR ENHANCED RESPONSE AND RECOVERY	75
5.8.2	CASE STUDY 2: FACILITATING PREDICTIVE MAINTENANCE AND COST SAVINGS FOR PRINT SHOP	75
5.8.3	CASE STUDY 3: TRANSFORMING POWER DISTRIBUTION BY LEVERAGING EDGE AI IN VIRTUALIZED SUBSTATIONS	76

5.8.4	CASE STUDY 4: REVOLUTIONIZING INDUSTRIAL MONITORING WITH EKKONO'S EDGE AI VIRTUAL SENSORS	76
5.8.5	CASE STUDY 5: TRANSFORMING WAREHOUSE EFFICIENCY WITH AUTONOMOUS AI-DRIVEN INVENTORY MONITORING SOLUTIONS	77
5.9	TECHNOLOGY ANALYSIS	77
5.9.1	KEY TECHNOLOGIES	77
5.9.1.1	Edge computing	77
5.9.1.2	Machine Learning (ML)	77
5.9.1.3	Computer vision	78
5.9.1.4	Natural Language Processing (NLP)	78
5.9.2	COMPLEMENTARY TECHNOLOGIES	78
5.9.2.1	Federated technologies	78
5.9.2.2	Cloud computing	78
5.9.2.3	Internet of Things (IoT)	78
5.9.3	ADJACENT TECHNOLOGIES	79
5.9.3.1	Big data analytics	79
5.9.3.2	Digital twins	79
5.9.3.3	Blockchain	79
5.10	REGULATORY LANDSCAPE	80
5.10.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	80
5.10.2	REGIONAL REGULATIONS	84
5.10.2.1	North America	84
5.10.2.1.1	SCR 17: Artificial Intelligence Bill - California, US	84
5.10.2.1.2	S1103: Artificial Intelligence Automated Decision Bill - Connecticut, US	84
5.10.2.1.3	National Artificial Intelligence Initiative Act (NAIIA)	85
5.10.2.1.4	Artificial Intelligence and Data Act (AIDA) - Canada	85
5.10.2.2	Europe	86
5.10.2.2.1	Artificial Intelligence Act (AIA) - European Union	86
5.10.2.2.2	General Data Protection Regulation - European Union	86
5.10.2.3	Asia Pacific	87
5.10.2.3.1	Interim Administrative Measures for Generative Artificial Intelligence Services - China	87
5.10.2.3.2	National AI Strategy - Singapore	87
5.10.2.3.3	Hiroshima AI Process Comprehensive Policy Framework - Japan	88
5.10.2.4	Middle East & Africa	88
5.10.2.4.1	National Strategy for Artificial Intelligence - UAE	88
5.10.2.4.2	National Artificial Intelligence Strategy - Qatar	89
5.10.2.4.3	AI Ethics Principles and Guidelines - Dubai, UAE	89
5.10.2.5	Latin America	89
5.10.2.5.1	Declaration of Santiago - Chile	89
5.10.2.5.2	Brazilian Artificial Intelligence Strategy - Brazil	90
5.11	PATENT ANALYSIS	91
5.11.1	METHODOLOGY	91
5.11.2	PATENTS FILED, BY DOCUMENT TYPE	91
5.11.3	INNOVATION AND PATENT APPLICATIONS	92
5.12	PRICING ANALYSIS	95
5.12.1	INDICATIVE PRICING ANALYSIS OF EDGE AI SOFTWARE, BY DATA MODALITY	96
5.12.2	INDICATIVE PRICING ANALYSIS OF EDGE AI SOFTWARE, BY OFFERING	97

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5.13	KEY CONFERENCES AND EVENTS, 2024-2025	97
5.14	PORTER'S FIVE FORCES ANALYSIS	99
5.14.1	THREAT OF NEW ENTRANTS	100
5.14.2	THREAT OF SUBSTITUTES	100
5.14.3	BARGAINING POWER OF SUPPLIERS	100
5.14.4	BARGAINING POWER OF BUYERS	100
5.14.5	INTENSITY OF COMPETITIVE RIVALRY	101
5.15	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	101
5.15.1	KEY TRENDS/DISRUPTIONS IMPACTING BUSINESS MODELS	101
5.16	KEY STAKEHOLDERS & BUYING CRITERIA	102
5.16.1	KEY STAKEHOLDERS IN BUYING PROCESS	102
5.16.2	BUYING CRITERIA	103
6	EDGE AI SOFTWARE MARKET, BY OFFERING	104
6.1	INTRODUCTION	105
6.1.1	DRIVERS: EDGE AI SOFTWARE MARKET, BY OFFERING	105
6.2	SOFTWARE	107
6.2.1	RIISING DEMAND ACROSS DIVERSE INDUSTRIES TO BOOST MARKET	107
6.2.2	BY TYPE	108
6.2.2.1	Platforms	109
6.2.2.2	Software development kits (SDKs)	110
6.2.2.3	Frameworks & toolkits	111
6.2.3	BY DEPLOYMENT MODE	112
6.2.3.1	Cloud	114
6.2.3.2	On-premises	115
6.3	SERVICES	116
6.3.1	RIISING DEMAND FOR IMPLEMENTATION AND MAINTENANCE SUPPORT TO DRIVE MARKET	116
6.3.2	PROFESSIONAL SERVICES	118
6.3.2.1	Training & consulting	120
6.3.2.2	System integration & testing	121
6.3.2.3	Support & maintenance	122
6.3.3	MANAGED SERVICES	123
7	EDGE AI SOFTWARE MARKET, BY DATA MODALITY	124
7.1	INTRODUCTION	125
7.1.1	DRIVERS: EDGE AI SOFTWARE MARKET, BY DATA MODALITY	125
7.2	VISUAL DATA	127
7.2.1	NEED FOR QUICK DECISION-MAKING TO DRIVE DEMAND	127
7.2.2	IMAGE DATA	128
7.2.3	VIDEO DATA	128
7.3	AUDITORY DATA	128
7.3.1	INCREASING REQUIREMENT FOR SPEEDY RECOGNITION OF AUDITORY SIGNALS TO BOOST MARKET	128
7.3.2	AUDIO DATA	129
7.3.3	AUDIO SENSOR DATA	130
7.4	TEXTUAL DATA	130
7.4.1	NEED FOR QUICK RESPONSE TO TEXT DATA TO DRIVE MARKET	130
7.4.2	STRUCTURED TEXT DATA	131
7.4.3	UNSTRUCTURED TEXT DATA	131

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7.4.4	SEMI-STRUCTURED TEXT DATA	132
7.5	SPATIAL DATA	132
7.5.1	GROWING ADOPTION OF LOCATION-BASED APPLICATIONS TO PROPEL MARKET	132
7.5.2	GEOSPATIAL DATA	133
7.5.3	LOCATION SENSON DATA	134
7.6	TEMPORAL DATA	134
7.6.1	RISING REQUIREMENT FOR PREDICTIVE MAINTENANCE TO BOOST MARKET	134
7.6.2	TIME-SERIES DATA	135
7.6.3	ENVIRONMENTAL SENSOR DATA	136
7.7	MULTIMODAL DATA	136
7.7.1	INCREASING NEED TO COMBINE INFORMATION FROM VARIOUS SOURCES TO DRIVE DEMAND	136
7.7.2	MULTIMODAL FUSION	137
7.7.3	CROSS-MODAL FUSION	138
?		
8	EDGE AI SOFTWARE MARKET, BY TECHNOLOGY	139
8.1	INTRODUCTION	140
8.1.1	DRIVERS: EDGE AI SOFTWARE MARKET, BY TECHNOLOGY	140
8.2	GENERATIVE AI	142
8.2.1	INCREASING NEED FOR CONTENT CREATION AT LOCAL LEVEL TO DRIVE MARKET	142
8.3	OTHER AI	143
8.3.1	ABILITY TO FACILITATE QUICK DECISION-MAKING TO DRIVE DEMAND	143
8.3.2	MACHINE LEARNING	145
8.3.2.1	Supervised learning	146
8.3.2.2	Unsupervised learning	146
8.3.2.3	Reinforcement learning	146
8.3.3	NATURAL LANGUAGE PROCESSING	147
8.3.4	COMPUTER VISION	148
8.3.5	OTHER TECHNOLOGIES	149
9	EDGE AI SOFTWARE MARKET, BY END USE	150
9.1	INTRODUCTION	151
9.1.1	DRIVERS: EDGE AI SOFTWARE MARKET, BY END USE	151
9.2	MANUFACTURING	153
9.2.1	ABILITY TO ENHANCE OVERALL PRODUCTIVITY TO DRIVE MARKET	153
9.2.2	INDUSTRIAL AUTOMATION	154
9.2.3	PREDICTIVE MAINTENANCE	155
9.2.4	QUALITY CONTROL	155
9.2.5	YIELD OPTIMIZATION	155
9.2.6	CONDITION & PRECISION MONITORING	156
9.3	HEALTHCARE & LIFE SCIENCES	156
9.3.1	NEED FOR QUICK DATA ANALYSIS TO BOOST DEMAND	156
9.3.2	REMOTE PATIENT MONITORING	157
9.3.3	MEDICAL IMAGING	158
9.3.4	HOSPITAL MANAGEMENT SYSTEMS	158
9.3.5	REAL-TIME HEALTH DATA ANALYTICS	158
9.3.6	PERSONALIZED MEDICINE	159
9.4	ENERGY & UTILITIES	159
9.4.1	GROWING ADOPTION TO IMPROVE OPERATIONAL EFFICIENCY TO FUEL MARKET	159

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9.4.2	SMART GRIDS	160
9.4.3	RENEWABLE ENERGY MANAGEMENT	161
9.4.4	ASSET MONITORING & OPTIMIZATION	161
9.4.5	ENERGY DISTRIBUTION AUTOMATION	161
9.4.6	PREDICTIVE ENERGY DEMAND FORECASTING	162
?		
9.5	TELECOMMUNICATION	162
9.5.1	NEED TO OPTIMIZE NETWORK PERFORMANCE TO DRIVE DEMAND	162
9.5.2	5G INFRASTRUCTURE	163
9.5.3	REAL-TIME NETWORK MONITORING	164
9.5.4	SUBSCRIBER DATA ANALYTICS	164
9.5.5	AUTOMATED CALL ROUTING	164
9.6	RETAIL	165
9.6.1	INCREASING DEMAND FOR PERSONALIZED SHOPPING EXPERIENCES TO DRIVE MARKET	165
9.6.2	IN-STORE ANALYTICS	166
9.6.3	SMART CHECKOUTS	166
9.6.4	CUSTOMER BEHAVIOR ANALYSIS	166
9.6.5	INVENTORY MANAGEMENT	167
9.6.6	PERSONALIZED PROMOTIONS & OFFERS	167
9.7	AUTOMOTIVE	167
9.7.1	INCREASING DEMAND FOR CONNECTED VEHICLES TO DRIVE MARKET	167
9.7.2	AUTONOMOUS AND SEMI-AUTONOMOUS VEHICLES	168
9.7.3	ADVANCED DRIVER-ASSISTANCE SYSTEMS (ADAS)	169
9.7.4	DRIVER MONITORING SYSTEMS	169
9.7.5	IN-VEHICLE INFOTAINMENT SYSTEMS	169
9.8	TRANSPORTATION & LOGISTICS	170
9.8.1	ABILITY TO STREAMLINE OPERATIONS TO FUEL DEMAND	170
9.8.2	FLEET MANAGEMENT	171
9.8.3	ROUTE OPTIMIZATION	171
9.8.4	LOGISTICS AUTOMATION	172
9.8.5	TRAFFIC PATTERN ANALYSIS	172
9.8.6	SUPPLY CHAIN OPTIMIZATION	172
9.9	SMART CITIES	173
9.9.1	GROWING PRESSURE ON INFRASTRUCTURE AND PUBLIC SERVICES TO DRIVE DEMAND	173
9.9.2	TRAFFIC MANAGEMENT	174
9.9.3	WASTE MANAGEMENT	174
9.9.4	ENVIRONMENTAL MONITORING	174
9.9.5	SURVEILLANCE & SECURITY	175
9.9.6	EMERGENCY RESPONSE SYSTEMS	175
9.10	BFSI	175
9.10.1	RIISING REQUIREMENT FOR FRAUD DETECTION AND PREVENTION TO PROPEL MARKET	175
9.10.2	FRAUD DETECTION & PREVENTION	176
9.10.3	AUTOMATED TRADING SYSTEMS	177
9.10.4	CUSTOMER SENTIMENT ANALYSIS	177
9.10.5	COMPLIANCE & REGULATORY REPORTING	177
?		
9.11	CONSUMER ELECTRONICS & DEVICES	178

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9.11.1	INCREASING DEMAND FOR FASTER RESPONSE TIMES TO FUEL MARKET	178
9.11.2	SMARTPHONES & TABLETS	179
9.11.3	WEARABLE DEVICES	179
9.11.4	SMART CAMERAS & SECURITY DEVICES	179
9.11.5	AUGMENTED & VIRTUAL REALITY (AR/VR) HEADSETS	180
9.11.6	CONSUMER DRONES	180
9.11.7	HOME APPLIANCES	180
9.11.8	OTHER DEVICES	181
9.12	OTHER END USES	181
10	EDGE AI SOFTWARE MARKET, BY REGION	183
10.1	INTRODUCTION	184
10.2	NORTH AMERICA	186
10.2.1	DRIVERS: EDGE AI SOFTWARE MARKET IN NORTH AMERICA	186
10.2.2	NORTH AMERICA: MACROECONOMIC OUTLOOK	187
10.2.3	US	195
10.2.3.1	Increasing government initiatives to propel market	195
10.2.4	CANADA	195
10.2.4.1	Collaborative efforts by government and private sector to drive market	195
10.3	EUROPE	196
10.3.1	DRIVERS: EDGE AI SOFTWARE MARKET IN EUROPE	196
10.3.2	EUROPE: MACROECONOMIC OUTLOOK	196
10.3.3	UK	203
10.3.3.1	Government support for research and development to fuel market	203
10.3.4	FRANCE	204
10.3.4.1	Increasing focus on real-time data processing to drive demand	204
10.3.5	GERMANY	204
10.3.5.1	Introduction of innovation hubs and collaborative platforms to boost market	204
10.3.6	ITALY	205
10.3.6.1	Rising focus on research activities to drive market	205
10.3.7	SPAIN	205
10.3.7.1	Government initiatives and private sector investments to drive market	205
10.3.8	REST OF EUROPE	206
10.4	ASIA PACIFIC	206
10.4.1	DRIVERS: EDGE AI SOFTWARE MARKET IN ASIA PACIFIC	207
10.4.2	ASIA PACIFIC: MACROECONOMIC OUTLOOK	207
10.4.3	CHINA	215
10.4.3.1	Government support for AI-related research to drive market	215
10.4.4	JAPAN	215
10.4.4.1	Focus on infrastructure enhancement to boost demand	215
10.4.5	INDIA	216
10.4.5.1	Government focus on innovation to drive market	216
10.4.6	AUSTRALIA & NEW ZEALAND	216
10.4.6.1	Partnerships to leverage edge computing capabilities to boost demand	216
10.4.7	ASEAN COUNTRIES	217
10.4.7.1	Increasing government focus on responsible AI adoption to fuel market	217
10.4.8	REST OF ASIA PACIFIC	217
10.5	MIDDLE EAST & AFRICA	218

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10.5.1	DRIVERS: EDGE AI SOFTWARE MARKET IN MIDDLE EAST & AFRICA	218
10.5.2	MIDDLE EAST & AFRICA: MACROECONOMIC OUTLOOK	218
10.5.3	MIDDLE EAST	226
10.5.3.1	Saudi Arabia	226
10.5.3.1.1	Growing demand for real-time data processing to fuel market	226
10.5.3.2	UAE	227
10.5.3.2.1	Focus on digital transformation to drive demand	227
10.5.3.3	Turkey	227
10.5.3.3.1	Industry-academic research partnerships to boost market	227
10.5.3.4	Qatar	228
10.5.3.4.1	Increasing adoption of IoT devices to drive demand	228
10.5.3.5	Rest of Middle East	228
10.5.4	AFRICA	228
10.6	LATIN AMERICA	229
10.6.1	DRIVERS: EDGE AI SOFTWARE MARKET IN LATIN AMERICA	229
10.6.2	LATIN AMERICA: MACROECONOMIC OUTLOOK	229
10.6.3	BRAZIL	236
10.6.3.1	Rising adoption of edge computing across sectors to drive market	236
10.6.4	MEXICO	237
10.6.4.1	Government support for digital transformation to fuel market	237
10.6.5	ARGENTINA	237
10.6.5.1	Increasing investment in digital infrastructure to drive demand	237
10.6.6	REST OF LATIN AMERICA	238
11	COMPETITIVE LANDSCAPE	239
11.1	OVERVIEW	239
11.2	KEY PLAYERS STRATEGIES/RIGHT TO WIN, 2023-2024	239
11.3	REVENUE ANALYSIS	241
11.4	MARKET SHARE ANALYSIS, 2023	242
11.4.1	MARKET RANKING ANALYSIS	243
?		
11.5	BRAND/PRODUCT COMPARISON	244
11.5.1	BRAND/PRODUCT COMPARISON, BY OFFERING	244
11.5.2	BRAND/PRODUCT COMPARISON, BY DATA MODALITY	246
11.6	COMPANY VALUATION AND FINANCIAL METRICS	247
11.7	COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023	248
11.7.1	STARS	248
11.7.2	EMERGING LEADERS	248
11.7.3	PERVASIVE PLAYERS	248
11.7.4	PARTICIPANTS	249
11.7.5	COMPANY FOOTPRINT: KEY PLAYERS, 2023	250
11.7.5.1	Company footprint	250
11.7.5.2	Region footprint	251
11.7.5.3	Offering footprint	252
11.7.5.4	Technology footprint	253
11.7.5.5	End use footprint	254
11.8	COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2023	255
11.8.1	PROGRESSIVE COMPANIES	255

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11.8.2	RESPONSIVE COMPANIES	255
11.8.3	DYNAMIC COMPANIES	255
11.8.4	STARTING BLOCKS	255
11.8.5	COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024	257
11.8.5.1	Detailed list of key startups/SMEs	257
11.8.5.2	Competitive benchmarking of key startups/SMEs	258
11.9	COMPETITIVE SCENARIO AND TRENDS	259
11.9.1	PRODUCT LAUNCHES AND ENHANCEMENTS	259
11.9.2	DEALS	263
12	COMPANY PROFILES	269
12.1	INTRODUCTION	269
12.1.1	MICROSOFT	270
12.1.1.1	Business overview	270
12.1.1.2	Products offered	271
12.1.1.3	Recent developments	272
12.1.1.3.1	Product launches and enhancements	272
12.1.1.3.2	Deals	273
12.1.1.4	MnM view	274
12.1.1.4.1	Right to win	274
12.1.1.4.2	Strategic choices	274
12.1.1.4.3	Weaknesses and competitive threats	274
	?	
12.1.2	IBM	275
12.1.2.1	Business overview	275
12.1.2.2	Products offered	276
12.1.2.3	Recent developments	277
12.1.2.3.1	Product launches and enhancements	277
12.1.2.3.2	Deals	278
12.1.2.4	MnM view	279
12.1.2.4.1	Right to win	279
12.1.2.4.2	Strategic choices	279
12.1.2.4.3	Weaknesses and competitive threats	279
12.1.3	GOOGLE	280
12.1.3.1	Business overview	280
12.1.3.2	Products offered	281
12.1.3.3	Recent developments	283
12.1.3.3.1	Product launches and enhancements	283
12.1.3.3.2	Deals	284
12.1.3.4	MnM view	284
12.1.3.4.1	Right to win	284
12.1.3.4.2	Strategic choices	284
12.1.3.4.3	Weaknesses and competitive threats	284
12.1.4	AWS	285
12.1.4.1	Business overview	285
12.1.4.2	Products offered	286
12.1.4.3	Recent developments	287
12.1.4.3.1	Product launches and enhancements	287

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12.1.4.3.2	Deals	288
12.1.4.4	MnM view	288
12.1.4.4.1	Right to win	288
12.1.4.4.2	Strategic choices	289
12.1.4.4.3	Weaknesses and competitive threats	289
12.1.5	NUTANIX	290
12.1.5.1	Business overview	290
12.1.5.2	Products offered	291
12.1.5.3	Recent developments	292
12.1.5.3.1	Product launches and enhancements	292
12.1.5.3.2	Deals	293
12.1.5.4	MnM view	293
12.1.5.4.1	Right to win	293
12.1.5.4.2	Strategic choices	293
12.1.5.4.3	Weaknesses and competitive threats	294
?		
12.1.6	SYNAPTICS	295
12.1.6.1	Business overview	295
12.1.6.2	Products offered	296
12.1.6.3	Recent developments	297
12.1.6.3.1	Product launches and enhancements	297
12.1.6.3.2	Deals	297
12.1.7	GORILLA TECHNOLOGIES	298
12.1.7.1	Business overview	298
12.1.7.2	Products offered	299
12.1.7.3	Recent developments	300
12.1.7.3.1	Deals	300
12.1.8	INFINEON TECHNOLOGIES	301
12.1.8.1	Business overview	301
12.1.8.2	Products offered	302
12.1.8.3	Recent developments	303
12.1.8.3.1	Product launches and enhancements	303
12.1.8.3.2	Deals	303
12.1.9	INTEL	304
12.1.9.1	Business overview	304
12.1.9.2	Products offered	305
12.1.9.3	Recent developments	306
12.1.9.3.1	Product launches and enhancements	306
12.1.9.3.2	Deals	306
12.1.10	VEEA	308
12.1.10.1	Business overview	308
12.1.10.2	Products offered	308
12.1.10.3	Recent developments	309
12.1.10.3.1	Deals	309
12.2	OTHER PLAYERS	310
12.2.1	INTENT HQ	310
12.2.2	BAIDU	310

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12.2.3	NVIDIA	311
12.2.4	ALIBABA CLOUD	311
12.2.5	BOSCH GLOBAL SOFTWARE TECHNOLOGIES	312
12.2.6	AZION	313
12.2.7	BLAIZE	314
12.2.8	CLEARBLADE	314
12.2.9	JOHNSON CONTROLS	315
12.2.10	MIDOKURA	315
?		
12.3	STARTUP/SME PROFILES	316
12.3.1	AXELERA AI	316
12.3.1.1	Business overview	316
12.3.1.2	Products offered	316
12.3.1.3	Recent developments	317
12.3.1.3.1	Deals	317
12.3.2	EDGE IMPULSE	318
12.3.2.1	Business overview	318
12.3.2.2	Products offered	318
12.3.2.3	Recent developments	319
12.3.2.3.1	Deals	319
12.3.3	LATENT AI	320
12.3.4	TERAKI	320
12.3.5	EKKONO	321
12.3.6	SPECTRO CLOUD	321
12.3.7	BARBARA	322
12.3.8	INVISION AI	322
12.3.9	HORIZON ROBOTICS	323
12.3.10	KNERON	323
13	ADJACENT AND RELATED MARKETS	324
13.1	INTRODUCTION	324
13.2	EDGE COMPUTING MARKET - GLOBAL FORECAST TO 2029	324
13.2.1	MARKET DEFINITION	324
13.2.2	MARKET OVERVIEW	324
13.2.2.1	Edge computing market, by component	324
13.2.2.2	Edge computing market, by organization size	325
13.2.2.3	Edge computing market, by application	326
13.2.2.4	Edge computing market, by vertical	326
13.2.2.5	Edge computing market, by region	327
13.3	ARTIFICIAL INTELLIGENCE (AI) MARKET - GLOBAL FORECAST TO 2030	328
13.3.1	MARKET DEFINITION	328
13.3.2	MARKET OVERVIEW	329
13.3.2.1	Artificial intelligence market, by offering	329
13.3.2.2	Artificial intelligence market, by technology	330
13.3.2.3	Artificial intelligence market, by business function	331
13.3.2.4	Artificial intelligence market, by vertical	332
13.3.2.5	Artificial intelligence market, by region	333
?		

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14	APPENDIX	335
14.1	DISCUSSION GUIDE	335
14.2	KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL	341
14.3	CUSTOMIZATION OPTIONS	343
14.4	RELATED REPORTS	343
14.5	AUTHOR DETAILS	344

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