

Edge AI Software Market by Offering (Solutions (Standalone and Integrated) and Services), Data Type (Video & Image Data, Audio Data, Text & Language Data, Biometric Data, and Multi-modal Data), Vertical and Region - Global Forecast to 2028

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Abstracts

The global market for Edge AI Software is projected to grow from USD 1.1 billion in 2023 to USD 4.1 billion by 2028, at a CAGR of 30.5% during the forecast period. Edge AI software is revolutionizing industries worldwide, driven by its ability to process data in real-time, minimize latency, and bolster security. This exponential growth can be attributed to several factors, including the proliferation of IoT devices generating massive amounts of data that require real-time processing. Edge AI software effectively addresses this need by analyzing data on the edge, eliminating the need for cloud transmission. Additionally, edge AI software reduces latency by processing data closer to the source, ensuring real-time responses critical for applications such as autonomous vehicles and smart cities. Furthermore, it enhances security by isolating data on the edge, making it more resistant to unauthorized access.

“The healthcare & life sciences vertical is projected to hold the largest CAGR during the forecast period.”

Edge AI software is being adopted in the healthcare and life sciences vertical to enable smart medical facilities with digital diagnosis and remote patient monitoring. The adoption of Edge AI in healthcare is critical for both patients and healthcare providers, as it can automate tasks, enable autonomous monitoring of hospital rooms and patients, and monitor vital signs. Edge AI computing usage cases can greatly extend the range of health services, and large chip manufacturers have been investing heavily in Edge AI. Edge AI is utilized for in-hospital patient monitoring, fall detection, radiology, and

anomaly and injury detection. Real-time insights and alerts can be given to operators as suspicious activity or objects are detected.

“Among data type, video and image data to account for the largest market during the forecast period.”

Edge AI software is being adopted in image and voice data to enable computer vision in business and mission-critical systems. Edge AI involves deploying AI applications in devices throughout the physical world, allowing computations to be done close to where data is actually created, rather than at a centralized cloud computing facility or private data centre. Edge AI devices include smart speakers, smartphones, laptops, robots, self-driven cars, drones, and surveillance cameras that use video analytics. Object detection and recognition are key features of Edge AI software. AI image recognition technology is a core application of deep learning. AI systems can pick up hidden patterns in collections of images and make independent, smart decisions. The benefits of edge AI include increased privacy, reduced power, and faster real-time analytics at higher speeds, lower costs, and with less power.

“Among service, professional services is anticipated to account for the largest market share during the forecast period.”

Edge AI software is revolutionizing professional services by enabling real-time data analysis and decision-making. This technology allows for predictive maintenance, fraud detection, risk assessment, compliance monitoring, and remote monitoring, all while ensuring data privacy and minimizing latency. As a result, edge AI is transforming the way professional services are delivered, leading to improved efficiency, productivity, and customer satisfaction.

“North America to account for the largest market size during the forecast period.”

The adoption of edge AI software in North America is rapidly gaining traction, driven by government initiatives, industry adoption, and technological advancements. Government support is accelerating the integration of edge AI into critical infrastructure and services, while businesses are embracing edge AI for predictive maintenance, real-time patient monitoring, autonomous vehicles, and smart city infrastructure. With continued innovation and adoption, edge AI is poised to play a transformative role in various sectors across North America.

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: 35%, Tier II: 45%, and Tier III: 20%

By Designation: C-Level Executives: 35%, Directors: 25%, and Others: 40%

By Region: North America: 40%, Europe: 20%, APAC: 30%, MEA: 5%, Latin America: 5%

Major vendors offering Edge AI software solutions and services across the globe are Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US), Synaptics (US), TIBCO (US), Octonion (Switzerland), Imagimob (Sweden), Anagog (Israel), Veeva (US), Gorilla Technology (China), Azion (US), Bragi (Germany), Tact.ai (US), Ekinops (France), Clearblade (US), Alef Edge (US), Adapdix (US), byteLAKE (Poland), Reality AI (US), Deci (Israel), Edgeworx (US), Swim (US), Invision AI (Canada), Horizon Robotics (China), Kneron (US), DeepBrainz (India), Johnson Controls(Ireland), and Blaize(US).

Research Coverage

The market study covers Edge AI software across segments. It aims to estimate the market size and the growth potential across different segments, such as offering, data type, vertical, and region. It includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

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 market for Edge AI software and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights 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:

Analysis of key drivers (Ever-increasing enterprise workloads on the cloud, Rapid growth in the number of intelligent applications, Exponentially growing data volume and network traffic, Increasing Use of IoT Driving Demand for Edge AI Software, Rising Introduction of 5G Network to Boost Market Growth), restraints (Privacy and security concerns related to edge AI solutions, Inadequate number of AI experts), opportunities (Emergence of the 5G network to bring IT and telecom together, Advent of autonomous vehicles coupled with connected car infrastructure, Rising need of edge computing in IoT, Exploring Emerging Applications in Various Fields), and challenges (Interoperability issues slowing the adoption of edge AI software, Optimization of edge AI 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 Edge AI software market strategies; 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.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players such as Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US) and others in the Edge AI software market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 MARKET SCOPE

1.3.1 MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

TABLE 1 USD EXCHANGE RATE, 2020–2022

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.6.1 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 EDGE AI SOFTWARE MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

TABLE 2 PRIMARY INTERVIEWS

2.1.2.1 Breakup of primary profiles

2.1.2.2 Key industry insights

2.2 MARKET BREAKUP AND DATA TRIANGULATION

FIGURE 2 EDGE AI SOFTWARE MARKET: DATA TRIANGULATION

2.3 MARKET SIZE ESTIMATION

FIGURE 3 TOP-DOWN AND BOTTOM-UP APPROACHES

2.3.1 TOP-DOWN APPROACH

2.3.2 BOTTOM-UP APPROACH

FIGURE 4 APPROACH 1 (SUPPLY-SIDE): REVENUE OF SOLUTIONS/SERVICES OF EDGE AI SOFTWARE MARKET

FIGURE 5 APPROACH 2, BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE OF EDGE AI SOFTWARE SOLUTIONS/SERVICES

FIGURE 6 APPROACH 3, BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE FROM EDGE AI SOFTWARE SOLUTIONS/SERVICES

FIGURE 7 APPROACH 4, BOTTOM-UP (DEMAND SIDE): SHARE OF EDGE AI

SOFTWARE THROUGH OVERALL EDGE AI SOFTWARE SPENDING

2.4 MARKET FORECAST

TABLE 3 FACTOR ANALYSIS

2.5 RESEARCH ASSUMPTIONS

2.6 LIMITATIONS

2.7 IMPLICATION OF RECESSION ON GLOBAL EDGE AI SOFTWARE MARKET

TABLE 4 RECESSION IMPACT ON EDGE AI SOFTWARE MARKET

3 EXECUTIVE SUMMARY

TABLE 5 GLOBAL EDGE AI SOFTWARE MARKET AND GROWTH RATE, 2018–2022
(USD MILLION & Y-O-Y)

TABLE 6 GLOBAL EDGE AI SOFTWARE MARKET AND GROWTH RATE, 2023–2028
(USD MILLION & Y-O-Y)

FIGURE 8 EDGE AI SOFTWARE SOLUTIONS TO ACCOUNT FOR LARGER
MARKET THAN SERVICES IN 2023

FIGURE 9 INTEGRATED EDGE AI SOFTWARE SOLUTIONS TO BE LARGER
MARKET SHARE THAN STANDALONE SOLUTIONS IN 2023

FIGURE 10 CLOUD DEPLOYMENT OF EDGE AI SOFTWARE TO DOMINATE
MARKET IN 2023

FIGURE 11 PROFESSIONAL EDGE AI SOFTWARE SERVICES TO LEAD MARKET
IN 2023

FIGURE 12 TRAINING & CONSULTING SERVICES TO BE LARGEST
PROFESSIONAL SERVICES MARKET IN 2023

FIGURE 13 VIDEO & IMAGE DATA TO ACCOUNT FOR LARGEST SHARE IN EDGE
AI SOFTWARE MARKET IN 2023

FIGURE 14 HEALTHCARE & LIFE SCIENCES VERTICAL TO GROW AT HIGHEST
CAGR IN 2023–2028

FIGURE 15 NORTH AMERICA TO BE LARGEST MARKET; ASIA PACIFIC TO GROW
AT HIGHEST CAGR IN EDGE AI SOFTWARE MARKET

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR EDGE AI SOFTWARE MARKET PLAYERS

FIGURE 16 EVER-INCREASING ENTERPRISE WORKLOADS ON CLOUD AND
RAPID GROWTH IN NUMBER OF INTELLIGENT APPLICATIONS TO DRIVE
MARKET GROWTH

4.2 EDGE AI SOFTWARE MARKET: TOP THREE DATA TYPE

FIGURE 17 BIOMETRIC DATA SEGMENT TO GROW AT HIGHEST CAGR DURING

FORECAST PERIOD

4.3 EDGE AI SOFTWARE MARKET, BY OFFERING AND KEY VERTICALS

FIGURE 18 SOLUTIONS SEGMENT AND AUTOMOTIVE, TRANSPORTATION & LOGISTICS VERTICAL TO HOLD LARGEST SEGMENTAL SHARES IN NORTH AMERICA IN 2023

4.4 EDGE AI SOFTWARE MARKET, BY REGION

FIGURE 19 NORTH AMERICA TO BE LARGEST MARKET IN 2023

5 MARKET OVERVIEW AND INDUSTRY TRENDS

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 20 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES: EDGE AI SOFTWARE MARKET

5.2.1 DRIVERS

- 5.2.1.1 Ever-increasing enterprise workloads on cloud
- 5.2.1.2 Rapid growth in number of intelligent applications
- 5.2.1.3 Exponential growth of data volume and network traffic
- 5.2.1.4 Increase in use of IoT driving demand for edge AI software
- 5.2.1.5 Rise in adoption of 5G network technology

5.2.2 RESTRAINTS

- 5.2.2.1 Privacy and security concerns related to edge AI solutions
- 5.2.2.2 Inadequate number of AI experts

5.2.3 OPPORTUNITIES

- 5.2.3.1 Emergence of 5G network to bring IT and telecom together
- 5.2.3.2 Advent of autonomous vehicles coupled with connected car infrastructure
- 5.2.3.3 Rise in need for edge computing in IoT
- 5.2.3.4 Exploring emerging applications in various fields

5.2.4 CHALLENGES

- 5.2.4.1 Interoperability issues slowing adoption of edge AI software
- 5.2.4.2 Optimization of edge AI standards

5.3 TECHNOLOGY ANALYSIS

5.3.1 KEY TECHNOLOGY

- 5.3.1.1 AI
- 5.3.1.2 Edge computing
- 5.3.1.3 IoT
- 5.3.1.4 Computer vision

5.3.2 COMPLIMENTARY TECHNOLOGY

- 5.3.2.1 5G

5.3.2.2 Quantum computing

5.3.2.3 AR/VR

5.3.3 ADJACENT TECHNOLOGY

5.3.3.1 Cloud computing

5.3.3.2 Blockchain

5.3.3.3 Human-machine interface

5.4 CASE STUDY ANALYSIS

5.4.1 HEALTHCARE & LIFE SCIENCES

5.4.1.1 HCA Healthcare used Red Hat solutions to create real-time predictive analytics system to detect sepsis accurately and rapidly

5.4.1.2 Top robotic and digital surgery startups implemented NVIDIA Medical Edge AI computing platform

5.4.2 GOVERNMENT & PUBLIC SECTOR

5.4.2.1 Gorilla supported Taoyuan Airport's smart city approach

5.4.3 MANUFACTURING

5.4.3.1 Schindler optimized elevator performance with on-board edge computing

5.4.3.2 Food manufacturer turned to TIBCO Spotfire analytics to ensure complex data visibility

5.4.3.3 Brembo chose TIBCO Spotfire analytics for implementation of analytics platforms

5.4.4 TRANSPORTATION & LOGISTICS

5.4.4.1 JetBlue setup real-time data and integration platform using TIBCO technologies

5.4.4.2 Imagimob used sensor technology and AI to develop SensorBeat

5.4.5 ENERGY AND UTILITIES

5.4.5.1 SparkCognition improved safety by preventing critical asset failure with AI at Edge

5.4.5.2 Hubco upgraded to Maximo for Oil and Gas 7.6 software and integrated its IT environment

5.4.6 TELECOM

5.4.6.1 XL Axiata leveraged TIBCO technology to improve customer experience

5.4.6.2 Algar Telecom deployed TIBCO Spotfire software for better decision-making

5.4.7 OTHER VERTICALS

5.4.7.1 Omelete created numerous Edge Applications on Azion platform to accelerate content delivery

5.4.7.2 Lojas Renner used edge applications to deliver large volume of requests on Black Friday

5.5 BRIEF HISTORY OF EDGE AI SOFTWARE MARKET

FIGURE 21 BRIEF HISTORY OF EDGE AI SOFTWARE MARKET

5.6 ARCHITECTURE OF EDGE AI SOFTWARE

FIGURE 22 ARCHITECTURE OF EDGE AI SOFTWARE

5.7 ECOSYSTEM/MARKET MAP

TABLE 7 EDGE AI SOFTWARE MARKET: ECOSYSTEM

FIGURE 23 KEY PLAYERS IN EDGE AI SOFTWARE MARKET ECOSYSTEM

5.8 REGULATORY LANDSCAPE

5.8.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 8 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.8.2 NORTH AMERICA

5.8.2.1 US

5.8.2.1.1 California Consumer Privacy Act (CCPA)

5.8.2.1.2 Health Insurance Portability and Accountability Act (HIPAA)

5.8.2.2 Canada

5.8.2.2.1 Public Safety Canada Regulation

5.8.3 EUROPE

5.8.3.1 General Data Protection Regulation (GDPR)

5.8.4 ASIA PACIFIC

5.8.4.1 South Korea

5.8.4.1.1 Personal Information Protection Act ("PIPA")

5.8.4.2 China

5.8.4.3 India

5.8.5 MIDDLE EAST & AFRICA

5.8.5.1 UAE

5.8.5.2 Israel

5.8.6 LATIN AMERICA

5.8.6.1 Brazil

5.8.6.2 Mexico

5.9 TARIFF LANDSCAPE

5.9.1 TARIFF RELATED TO EDGE AI SOFTWARE

TABLE 12 TARIFF RELATED TO EDGE AI SOFTWARE, 2022

5.10 SUPPLY CHAIN ANALYSIS

FIGURE 24 SUPPLY CHAIN ANALYSIS**5.11 PORTER'S FIVE FORCES ANALYSIS****FIGURE 25 PORTER'S FIVE FORCES ANALYSIS****TABLE 13 EDGE AI SOFTWARE MARKET: PORTER'S FIVE FORCES ANALYSIS****5.11.1 THREAT OF NEW ENTRANTS****5.11.2 THREAT OF SUBSTITUTES****5.11.3 BARGAINING POWER OF SUPPLIERS****5.11.4 BARGAINING POWER OF BUYERS****5.11.5 INTENSITY OF COMPETITIVE RIVALRY****5.12 KEY CONFERENCES AND EVENTS****TABLE 14 EDGE AI SOFTWARE MARKET: DETAILED LIST OF CONFERENCES AND EVENTS, 2023–2024****5.13 KEY STAKEHOLDERS & BUYING CRITERIA****5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS****FIGURE 26 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP THREE VERTICALS****TABLE 15 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP THREE VERTICALS****5.13.2 BUYING CRITERIA****FIGURE 27 KEY BUYING CRITERIA FOR TOP THREE VERTICALS****TABLE 16 KEY BUYING CRITERIA FOR TOP THREE VERTICALS****5.14 PRICING ANALYSIS****5.14.1 INDICATIVE PRICING LEVELS OF EDGE AI SOFTWARE SOLUTIONS****TABLE 17 INDICATIVE PRICING LEVELS OF EDGE AI SOFTWARE SOLUTIONS****5.14.2 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY SERVICE****FIGURE 28 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY SERVICE****TABLE 18 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY SERVICE****5.15 PATENT ANALYSIS****5.15.1 METHODOLOGY****5.15.2 DOCUMENT TYPE****TABLE 19 PATENTS FILED, 2013–2023****5.15.3 INNOVATION AND PATENT APPLICATIONS****FIGURE 29 TOTAL NUMBER OF PATENTS GRANTED, 2013–2023****5.15.3.1 Top applicants****FIGURE 30 TOP COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2013–2023****FIGURE 31 REGIONAL ANALYSIS OF PATENTS GRANTED, 2013–2023****TABLE 20 TOP 20 PATENT OWNERS, 2013–2023****TABLE 21 LIST OF MAJOR PATENTS IN EDGE AI SOFTWARE MARKET, 2023**

5.16 TRADE ANALYSIS

5.16.1 IMPORT SCENARIO OF COMPUTER SOFTWARE

FIGURE 32 COMPUTER SOFTWARE IMPORT, BY KEY COUNTRY, 2015–2022 (USD BILLION)

5.16.2 EXPORT SCENARIO OF COMPUTER SOFTWARE

FIGURE 33 COMPUTER SOFTWARE EXPORT, BY KEY COUNTRY, 2015–2022 (USD BILLION)

5.17 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS

FIGURE 34 EDGE AI SOFTWARE MARKET: TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS

5.18 BEST PRACTICES IN EDGE AI SOFTWARE MARKET

TABLE 22 BEST PRACTICES IN EDGE AI SOFTWARE MARKETS

5.19 TECHNOLOGY ROADMAP OF EDGE AI SOFTWARE MARKET

TABLE 23 SHORT-TERM ROADMAP, 2023–2025

TABLE 24 MID-TERM ROADMAP, 2026–2028

TABLE 25 LONG-TERM ROADMAP, 2029–2030

5.20 BUSINESS MODELS OF EDGE AI SOFTWARE MARKET

5.20.1 BUSINESS MODEL FOR SOFTWARE PROVIDERS

5.20.2 BUSINESS MODEL FOR SERVICE PROVIDERS

6 EDGE AI SOFTWARE MARKET, BY OFFERING

6.1 INTRODUCTION

6.1.1 OFFERINGS: EDGE AI SOFTWARE MARKET DRIVERS

FIGURE 35 EDGE AI SOFTWARE SOLUTIONS TO LEAD MARKET DURING FORECAST PERIOD

TABLE 26 EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 27 EDGE AI SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

6.2 SOLUTIONS

TABLE 28 EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 29 EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.1 EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE

FIGURE 36 INTEGRATED SOLUTIONS TO ACCOUNT FOR LARGEST SHARE DURING FORECAST PERIOD

TABLE 30 EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD

MILLION)

TABLE 31 EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

6.2.2 STANDALONE

6.2.2.1 Deploying power of location intelligence for data-driven insights

TABLE 32 STANDALONE EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 33 STANDALONE EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.3 INTEGRATED

6.2.3.1 Use of ETL to extract geographic data from any source system

TABLE 34 INTEGRATED EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 35 INTEGRATED EDGE AI SOFTWARE SOLUTIONS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.4 EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT

TABLE 36 EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 37 EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

6.2.5 ON-PREMISES

6.2.5.1 On-premise deployment efficiently curtails data transfer costs and latency

TABLE 38 ON-PREMISE EDGE AI SOFTWARE MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 39 ON-PREMISE EDGE AI SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.6 CLOUD

6.2.6.1 Need for scalable deployment model in organizations

TABLE 40 CLOUD-BASED EDGE AI SOFTWARE MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 41 CLOUD-BASED EDGE AI SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3 SERVICES

TABLE 42 EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 43 EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 44 EDGE AI SOFTWARE SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 45 EDGE AI SOFTWARE SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.1 PROFESSIONAL SERVICES

TABLE 46 EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 47 EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 48 EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 49 EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.1.1 Training & consulting

TABLE 50 TRAINING & CONSULTING SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 51 TRAINING & CONSULTING SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.1.2 System integration & testing

TABLE 52 SYSTEM & INTEGRATION SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 53 SYSTEM & INTEGRATION SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.1.3 Support & maintenance

TABLE 54 SUPPORT & MAINTENANCE SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 55 SUPPORT & MAINTENANCE SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2 MANAGED SERVICES

TABLE 56 EDGE AI SOFTWARE MANAGED SERVICES MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 57 EDGE AI SOFTWARE MANAGED SERVICES MARKET, BY REGION, 2023–2028 (USD MILLION)

7 EDGE AI SOFTWARE MARKET, BY DATA TYPE

7.1 INTRODUCTION

7.1.1 DATA TYPE: EDGE AI SOFTWARE MARKET DRIVERS

FIGURE 40 AUDIO DATA SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 58 EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD

MILLION)

TABLE 59 EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

7.2 VIDEO & IMAGE DATA

7.2.1 ENABLING REAL-TIME ANALYSIS, REDUCING LATENCY, AND CONSERVING BANDWIDTH

TABLE 60 EDGE AI SOFTWARE MARKET FOR VIDEO & IMAGE DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 61 EDGE AI SOFTWARE MARKET FOR VIDEO & IMAGE DATA, BY REGION, 2023–2028 (USD MILLION)

TABLE 62 EDGE AI SOFTWARE MARKET FOR VIDEO & IMAGE DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 63 EDGE AI SOFTWARE MARKET FOR VIDEO & IMAGE DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.2.2 OBJECT DETECTION & RECOGNITION

7.2.3 FACIAL RECOGNITION

7.2.4 VISUAL INSPECTION

7.2.5 OTHER VIDEO & IMAGE DATA APPLICATIONS

7.3 AUDIO DATA

7.3.1 RAPID EDGE AI PROCESSING TO PREVENT TAMPERING WITH AUDIO DATA

TABLE 64 EDGE AI SOFTWARE MARKET FOR AUDIO DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 65 EDGE AI SOFTWARE MARKET FOR AUDIO DATA, BY REGION, 2023–2028 (USD MILLION)

TABLE 66 EDGE AI SOFTWARE MARKET FOR AUDIO DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 67 EDGE AI SOFTWARE MARKET FOR AUDIO DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.3.2 SPEECH RECOGNITION

7.3.3 SOUND ANOMALY DETECTION

7.3.4 VOICE ASSISTANTS

7.3.5 OTHER AUDIO DATA APPLICATIONS

7.4 TEXT & LANGUAGE DATA

7.4.1 NLP: KEY IN SIMULATING HUMAN CONVERSATIONS USING COMPUTATIONAL LINGUISTICS WITH DEEP LEARNING MODELS

TABLE 68 EDGE AI SOFTWARE MARKET FOR TEXT & LANGUAGE DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 69 EDGE AI SOFTWARE MARKET FOR TEXT & LANGUAGE DATA, BY

REGION, 2023–2028 (USD MILLION)

TABLE 70 EDGE AI SOFTWARE MARKET FOR TEXT & LANGUAGE DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 71 EDGE AI SOFTWARE MARKET FOR TEXT & LANGUAGE DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.4.2 NATURAL LANGUAGE PROCESSING (NLP)

7.4.3 SENTIMENT ANALYSIS

7.4.4 CHATBOTS & VIRTUAL ASSISTANTS

7.4.5 OTHER TEXT & LANGUAGE DATA APPLICATIONS

7.5 ENVIRONMENTAL & LOCATION DATA

7.5.1 OFFERING REAL-TIME INSIGHTS TO HELP BUILD SMART CITIES AND BEYOND

TABLE 72 EDGE AI SOFTWARE MARKET FOR ENVIRONMENTAL & LOCATION DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 73 EDGE AI SOFTWARE MARKET FOR ENVIRONMENTAL & LOCATION DATA, BY REGION, 2023–2028 (USD MILLION)

TABLE 74 EDGE AI SOFTWARE MARKET FOR ENVIRONMENTAL & LOCATION DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 75 EDGE AI SOFTWARE MARKET FOR ENVIRONMENTAL & LOCATION DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.5.2 GEOSPATIAL ANALYSIS

7.5.3 WEATHER PREDICTION

7.5.4 AIR QUALITY MONITORING

7.5.5 OTHER ENVIRONMENTAL & LOCATION DATA APPLICATIONS

7.6 BIOMETRIC DATA

7.6.1 DEMAND TO POWER REAL-TIME, PRIVACY-PRESERVING, AND BANDWIDTH-EFFICIENT APPLICATIONS

TABLE 76 EDGE AI SOFTWARE MARKET FOR BIOMETRIC DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 77 EDGE AI SOFTWARE MARKET FOR BIOMETRIC DATA, BY REGION, 2023–2028 (USD MILLION)

TABLE 78 EDGE AI SOFTWARE MARKET FOR BIOMETRIC DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 79 EDGE AI SOFTWARE MARKET FOR BIOMETRIC DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.6.2 FINGERPRINT RECOGNITION

7.6.3 IRIS & RETINA SCANNING

7.6.4 BIOMETRIC AUTHENTICATION

7.6.5 OTHER BIOMETRIC DATA APPLICATIONS

7.7 MULTI-MODAL DATA

7.7.1 NEED TO REVOLUTIONIZE DECISION-MAKING, ACCURACY, RESOURCE UTILIZATION, AND PRIVACY

TABLE 80 EDGE AI SOFTWARE MARKET FOR MULTI-MODAL DATA, BY REGION, 2018–2022 (USD MILLION)

TABLE 81 EDGE AI SOFTWARE MARKET FOR MULTI-MODAL DATA, BY REGION, 2023–2028 (USD MILLION)

TABLE 82 EDGE AI SOFTWARE MARKET FOR MULTI-MODAL DATA, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 83 EDGE AI SOFTWARE MARKET FOR MULTI-MODAL DATA, BY APPLICATION, 2023–2028 (USD MILLION)

7.7.2 INTEGRATION OF SENSORS

7.7.3 INTEGRATION OF TEXT & VISUAL DATA

7.7.4 OTHER MULTI-MODAL DATA APPLICATIONS

8 EDGE AI SOFTWARE MARKET, BY VERTICAL

8.1 INTRODUCTION

8.1.1 VERTICAL: EDGE AI SOFTWARE MARKET DRIVERS

FIGURE 41 HEALTHCARE & LIFE SCIENCES SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 84 EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 85 EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

8.2 BFSI

TABLE 86 BFSI: USE CASES

TABLE 87 EDGE AI SOFTWARE MARKET IN BFSI VERTICAL, BY REGION, 2018–2022 (USD MILLION)

TABLE 88 EDGE AI SOFTWARE MARKET IN BFSI VERTICAL, BY REGION, 2023–2028 (USD MILLION)

TABLE 89 EDGE AI SOFTWARE MARKET IN BFSI VERTICAL, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 90 EDGE AI SOFTWARE MARKET IN BFSI VERTICAL, BY APPLICATION, 2023–2028 (USD MILLION)

8.2.1 FRAUD DETECTION & PREVENTION

8.2.2 CUSTOMER AUTHENTICATION

8.2.3 PERSONALIZED CUSTOMER SERVICES

8.2.4 CREDIT SCORING

8.2.5 OTHER BFSI APPLICATIONS

8.3 GOVERNMENT & PUBLIC SECTOR

TABLE 91 GOVERNMENT & PUBLIC SECTOR: USE CASES

TABLE 92 EDGE AI SOFTWARE MARKET IN GOVERNMENT & PUBLIC SECTOR, BY REGION, 2018–2022 (USD MILLION)

TABLE 93 EDGE AI SOFTWARE MARKET IN GOVERNMENT & PUBLIC SECTOR, BY REGION, 2023–2028 (USD MILLION)

TABLE 94 EDGE AI SOFTWARE MARKET IN GOVERNMENT & PUBLIC SECTOR, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 95 EDGE AI SOFTWARE MARKET IN GOVERNMENT & PUBLIC SECTOR, BY APPLICATION, 2023–2028 (USD MILLION)

8.3.1 TRAFFIC MANAGEMENT

8.3.2 WASTE OR WATER MANAGEMENT

8.3.3 SMART CITY MANAGEMENT

8.3.4 SECURITY & LAW ENFORCEMENT

8.3.5 OTHER GOVERNMENT & PUBLIC SECTOR APPLICATIONS

8.4 MANUFACTURING

TABLE 96 MANUFACTURING: USE CASES

TABLE 97 EDGE AI SOFTWARE MARKET IN MANUFACTURING VERTICAL, BY REGION, 2018–2022 (USD MILLION)

TABLE 98 EDGE AI SOFTWARE MARKET IN MANUFACTURING VERTICAL, BY REGION, 2023–2028 (USD MILLION)

TABLE 99 EDGE AI SOFTWARE MARKET IN MANUFACTURING VERTICAL, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 100 EDGE AI SOFTWARE MARKET IN MANUFACTURING VERTICAL, BY APPLICATION, 2023–2028 (USD MILLION)

8.4.1 PREDICTIVE MAINTENANCE

8.4.2 YIELD OPTIMIZATION

8.4.3 CONDITION & PRECISION MONITORING

8.4.4 QUALITY CONTROL

8.4.5 OTHER MANUFACTURING APPLICATIONS

8.5 HEALTHCARE & LIFE SCIENCES

TABLE 101 HEALTHCARE & LIFE SCIENCES: USE CASES

TABLE 102 EDGE AI SOFTWARE MARKET IN HEALTHCARE & LIFE SCIENCES VERTICAL, BY REGION, 2018–2022 (USD MILLION)

TABLE 103 EDGE AI SOFTWARE MARKET IN HEALTHCARE & LIFE SCIENCES VERTICAL, BY REGION, 2023–2028 (USD MILLION)

TABLE 104 EDGE AI SOFTWARE MARKET IN HEALTHCARE & LIFE SCIENCES VERTICAL, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 105 EDGE AI SOFTWARE MARKET IN HEALTHCARE & LIFE SCIENCES
VERTICAL, BY APPLICATION, 2023–2028 (USD MILLION)

8.5.1 IN-HOSPITAL PATIENT MONITORING

8.5.2 FALL DETECTION

8.5.3 RADIOLOGY

8.5.4 ANOMALY & INJURIES DETECTION

8.5.5 OTHER HEALTHCARE & LIFE SCIENCE APPLICATIONS

8.6 ENERGY & UTILITIES

TABLE 106 ENERGY & UTILITIES: USE CASES

TABLE 107 EDGE AI SOFTWARE MARKET IN ENERGY & UTILITIES VERTICAL, BY
REGION, 2018–2022 (USD MILLION)

TABLE 108 EDGE AI SOFTWARE MARKET IN ENERGY & UTILITIES VERTICAL, BY
REGION, 2023–2028 (USD MILLION)

TABLE 109 EDGE AI SOFTWARE MARKET IN ENERGY & UTILITIES VERTICAL, BY
APPLICATION, 2018–2022 (USD MILLION)

TABLE 110 EDGE AI SOFTWARE MARKET IN ENERGY & UTILITIES VERTICAL, BY
APPLICATION, 2023–2028 (USD MILLION)

8.6.1 ENERGY OPTIMIZATION

8.6.2 DISTRIBUTED ENERGY MANAGEMENT

8.6.3 SMART GRIDS

8.6.4 PIPELINE OPTIMIZATION

8.6.5 OTHER ENERGY & UTILITY APPLICATIONS

8.7 TELECOMMUNICATIONS

TABLE 111 TELECOMMUNICATIONS: USE CASES

TABLE 112 EDGE AI SOFTWARE MARKET IN TELECOMMUNICATIONS VERTICAL,
BY REGION, 2018–2022 (USD MILLION)

TABLE 113 EDGE AI SOFTWARE MARKET IN TELECOMMUNICATIONS VERTICAL,
BY REGION, 2023–2028 (USD MILLION)

TABLE 114 EDGE AI SOFTWARE MARKET IN TELECOMMUNICATIONS VERTICAL,
BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 115 EDGE AI SOFTWARE MARKET IN TELECOMMUNICATIONS VERTICAL,
BY APPLICATION, 2023–2028 (USD MILLION)

8.7.1 NETWORK MANAGEMENT & OPTIMIZATION

8.7.2 CUSTOMER CHURN PREVENTION

8.7.3 FAULT DETECTION

8.7.4 ROOT CAUSE ANALYSIS

8.7.5 OTHER TELECOMMUNICATION APPLICATIONS

8.8 MEDIA & ENTERTAINMENT

TABLE 116 MEDIA & ENTERTAINMENT: USE CASES

TABLE 117 EDGE AI SOFTWARE MARKET IN MEDIA & ENTERTAINMENT VERTICAL, BY REGION, 2018–2022 (USD MILLION)

TABLE 118 EDGE AI SOFTWARE MARKET IN MEDIA & ENTERTAINMENT VERTICAL, BY REGION, 2023–2028 (USD MILLION)

TABLE 119 EDGE AI SOFTWARE MARKET IN MEDIA & ENTERTAINMENT VERTICAL, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 120 EDGE AI SOFTWARE MARKET IN MEDIA & ENTERTAINMENT VERTICAL, BY APPLICATION, 2023–2028 (USD MILLION)

8.8.1 VIDEO STREAMING

8.8.2 CLOUD GAMING

8.8.3 AR/VR/MR

8.8.4 CONTENT RENDERING & CACHING

8.8.5 OTHER MEDIA & ENTERTAINMENT APPLICATIONS

8.9 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS

TABLE 121 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: USE CASES

TABLE 122 EDGE AI SOFTWARE MARKET IN AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS VERTICAL, BY REGION, 2018–2022 (USD MILLION)

TABLE 123 EDGE AI SOFTWARE MARKET IN AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS VERTICAL, BY REGION, 2023–2028 (USD MILLION)

TABLE 124 EDGE AI SOFTWARE MARKET IN AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS VERTICAL, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 125 EDGE AI SOFTWARE MARKET IN AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS VERTICAL, BY APPLICATION, 2023–2028 (USD MILLION)

8.9.1 SUPPLY CHAIN MANAGEMENT

8.9.2 AUTONOMOUS VEHICLES

8.9.3 DEVICE FAILURE

8.9.4 EQUIPMENT MANAGEMENT

8.9.5 DRIVER MONITORING

8.9.6 VOICE & GESTURE CONTROL

8.9.7 OTHER AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS APPLICATIONS

8.10 OTHER VERTICALS

TABLE 126 EDGE AI SOFTWARE MARKET IN OTHER VERTICALS, BY REGION, 2018–2022 (USD MILLION)

TABLE 127 EDGE AI SOFTWARE MARKET IN OTHER VERTICALS, BY REGION, 2023–2028 (USD MILLION)

TABLE 128 EDGE AI SOFTWARE MARKET IN OTHER VERTICALS, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 129 EDGE AI SOFTWARE MARKET IN OTHER VERTICALS, BY

APPLICATION, 2023–2028 (USD MILLION)

- 8.10.1 WEATHER MONITORING
- 8.10.2 IDENTIFICATION & ACCESS MANAGEMENT
- 8.10.3 SMART ENERGY SYSTEMS
- 8.10.4 FRAUD DETECTION & PREVENTION
- 8.10.5 CUSTOMER ENGAGEMENT
- 8.10.6 OTHER APPLICATIONS IN OTHER VERTICALS

9 EDGE AI SOFTWARE MARKET, BY REGION**9.1 INTRODUCTION**

FIGURE 42 INDIA TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 43 ASIA PACIFIC TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD

TABLE 130 EDGE AI SOFTWARE MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 131 EDGE AI SOFTWARE MARKET, BY REGION, 2023–2028 (USD MILLION)

9.2 NORTH AMERICA

9.2.1 NORTH AMERICA: EDGE AI SOFTWARE MARKET DRIVERS

9.2.2 NORTH AMERICA: RECESSION IMPACT

FIGURE 44 NORTH AMERICA: MARKET SNAPSHOT

TABLE 132 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 133 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 134 NORTH AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 135 NORTH AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 136 NORTH AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 137 NORTH AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 138 NORTH AMERICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 139 NORTH AMERICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 140 NORTH AMERICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2018–2022 (USD MILLION)

TABLE 141 NORTH AMERICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2023–2028 (USD MILLION)

TABLE 142 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD MILLION)

TABLE 143 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

TABLE 144 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 145 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 146 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 147 NORTH AMERICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.2.3 US

9.2.3.1 Rapid adoption of advanced technologies to enhance business efficiency

9.2.4 CANADA

9.2.4.1 Abundant talent pool, global reputation for excellence in AI research, and presence of prominent vendors

9.3 EUROPE

9.3.1 EUROPE: EDGE AI SOFTWARE MARKET DRIVERS

9.3.2 EUROPE: RECESSION IMPACT

TABLE 148 EUROPE: EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 149 EUROPE: EDGE AI SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 150 EUROPE: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 151 EUROPE: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 152 EUROPE: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 153 EUROPE: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 154 EUROPE: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 155 EUROPE: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 156 EUROPE: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE,

2018–2022 (USD MILLION)

TABLE 157 EUROPE: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2023–2028 (USD MILLION)

TABLE 158 EUROPE: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD MILLION)

TABLE 159 EUROPE: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

TABLE 160 EUROPE: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 161 EUROPE: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 162 EUROPE: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 163 EUROPE: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.3.3 UK

9.3.3.1 Stringent regulatory compliances, strong customer base, and rise in awareness of potential of AI

9.3.4 GERMANY

9.3.4.1 Highly skilled labor force, robust infrastructure, and rise in adoption of AI and ML technologies

9.3.5 FRANCE

9.3.5.1 Investment from various investors and presence of high-potential client base

9.3.6 ITALY

9.3.6.1 Growing concerns for security, production, and supply chain management

9.3.7 SPAIN

9.3.7.1 Government support, private sector investment, and various government initiatives

9.3.8 BENELUX

9.3.8.1 Presence of leading edge AI companies and strong focus on innovation and digitalization

9.3.9 REST OF EUROPE

9.4 ASIA PACIFIC

9.4.1 ASIA PACIFIC: EDGE AI SOFTWARE MARKET DRIVERS

9.4.2 ASIA PACIFIC: IMPACT OF RECESSION

FIGURE 45 ASIA PACIFIC: MARKET SNAPSHOT

TABLE 164 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 165 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY OFFERING,

2023–2028 (USD MILLION)

TABLE 166 ASIA PACIFIC: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 167 ASIA PACIFIC: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 168 ASIA PACIFIC: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 169 ASIA PACIFIC: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 170 ASIA PACIFIC: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 171 ASIA PACIFIC: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 172 ASIA PACIFIC: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2018–2022 (USD MILLION)

TABLE 173 ASIA PACIFIC: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2023–2028 (USD MILLION)

TABLE 174 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD MILLION)

TABLE 175 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

TABLE 176 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 177 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 178 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 179 ASIA PACIFIC: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.4.3 CHINA

9.4.3.1 Government initiatives and rising AI-based edge video

9.4.4 JAPAN

9.4.4.1 Need for progressive AI capabilities and government support for technological innovation

9.4.5 INDIA

9.4.5.1 Presence of major global technology giants and government initiatives

9.4.6 ANZ

9.4.6.1 Surge in collaborations between MNCs and research institutions, technological infrastructure, and thriving startup ecosystem

9.4.7 ASEAN

9.4.7.1 Need for real-time data processing and decision-making at edge of networks

9.4.8 REST OF ASIA PACIFIC 212

9.5 MIDDLE EAST & AFRICA

9.5.1 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET DRIVERS

9.5.2 MIDDLE EAST & AFRICA: RECESSION IMPACT

TABLE 180 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 181 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 182 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 183 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 184 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 185 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 186 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 187 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 188 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2018–2022 (USD MILLION)

TABLE 189 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES, BY TYPE, 2023–2028 (USD MILLION)

TABLE 190 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD MILLION)

TABLE 191 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

TABLE 192 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 193 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 194 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 195 MIDDLE EAST & AFRICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.5.3 UAE

9.5.3.1 Plans to build smart cities and provide online government services to citizens

9.5.4 SAUDI ARABIA

9.5.4.1 Increase in purchasing power and greater inclination toward advanced technologies

9.5.5 QATAR

9.5.5.1 Increase in economic growth and rising investment by edge AI software vendors

9.5.6 TURKEY

9.5.6.1 Need to enhance technological landscape and improve operational efficiency and decision-making processes

9.5.7 SOUTH AFRICA

9.5.7.1 Increase in activity in cloud industry and investment by edge AI software vendors

9.5.8 REST OF MIDDLE EAST & AFRICA

9.6 LATIN AMERICA

9.6.1 LATIN AMERICA: EDGE AI SOFTWARE MARKET DRIVERS

9.6.2 LATIN AMERICA: RECESSION IMPACT

TABLE 196 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 197 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 198 LATIN AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 199 LATIN AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 200 LATIN AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 201 LATIN AMERICA: EDGE AI SOFTWARE SOLUTIONS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 202 LATIN AMERICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 203 LATIN AMERICA: EDGE AI SOFTWARE SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 204 LATIN AMERICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 205 LATIN AMERICA: EDGE AI SOFTWARE PROFESSIONAL SERVICES MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 206 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2018–2022 (USD MILLION)

TABLE 207 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY DATA TYPE, 2023–2028 (USD MILLION)

TABLE 208 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 209 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

TABLE 210 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 211 LATIN AMERICA: EDGE AI SOFTWARE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.6.3 BRAZIL

9.6.3.1 Adoption of AI-based solutions from retail industry and need to analyze customer purchasing patterns

9.6.4 MEXICO

9.6.4.1 Growing social media users and IT infrastructure to propel demand for edge AI software market

9.6.5 ARGENTINA

9.6.5.1 Availability and maturity of affordable edge AI devices and platforms and rising number of edge AI use cases to drive market

9.6.6 REST OF LATIN AMERICA

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 STRATEGIES ADOPTED BY KEY PLAYERS

10.2.1 OVERVIEW OF STRATEGIES ADOPTED BY KEY EDGE AI SOFTWARE VENDORS

TABLE 212 OVERVIEW OF STRATEGIES ADOPTED BY KEY EDGE AI SOFTWARE VENDORS

10.3 REVENUE ANALYSIS

10.3.1 BUSINESS SEGMENT REVENUE ANALYSIS

FIGURE 46 BUSINESS SEGMENT REVENUE ANALYSIS, 2018–2022 (USD BILLION)

10.4 MARKET SHARE ANALYSIS

FIGURE 47 MARKET SHARE ANALYSIS FOR KEY COMPANIES, 2022

TABLE 213 EDGE AI SOFTWARE MARKET: INTENSITY OF COMPETITIVE RIVALRY

10.5 BRAND/PRODUCT COMPARATIVE ANALYSIS

10.5.1 BRAND/PRODUCT COMPARATIVE ANALYSIS, BY PRODUCT

FIGURE 48 BRAND/PRODUCT COMPARATIVE ANALYSIS, BY PRODUCT

10.5.2 BRAND/PRODUCT COMPARATIVE ANALYSIS, BY DATA TYPE

FIGURE 49 BRAND/PRODUCT COMPARATIVE ANALYSIS, BY DATA TYPE**10.6 KEY COMPANY EVALUATION MATRIX****10.6.1 STARS****10.6.2 EMERGING LEADERS****10.6.3 PERVASIVE PLAYERS****10.6.4 PARTICIPANTS****FIGURE 50 GLOBAL EDGE AI SOFTWARE MARKET: COMPANY EVALUATION MATRIX, 2023****10.6.5 COMPANY FOOTPRINT****FIGURE 51 PRODUCT FOOTPRINT (20 COMPANIES)****TABLE 214 REGIONAL FOOTPRINT (20 COMPANIES)****TABLE 215 VERTICAL FOOTPRINT (20 COMPANIES)****TABLE 216 COMPANY FOOTPRINT (20 COMPANIES)****10.7 STARTUP/SME EVALUATION MATRIX****10.7.1 PROGRESSIVE COMPANIES****10.7.2 RESPONSIVE COMPANIES****10.7.3 DYNAMIC COMPANIES****10.7.4 STARTING BLOCKS****FIGURE 52 GLOBAL EDGE AI SOFTWARE MARKET: STARTUP/SME EVALUATION MATRIX, 2023****10.7.5 COMPETITIVE BENCHMARKING****TABLE 217 EDGE AI SOFTWARE MARKET: DETAILED LIST OF KEY STARTUPS/SMES****TABLE 218 EDGE AI SOFTWARE MARKET: COMPETITIVE BENCHMARKING OF STARTUPS/SMES, 2023****10.8 VALUATION AND FINANCIAL METRICS OF KEY EDGE AI SOFTWARE VENDORS****FIGURE 53 VALUATION AND FINANCIAL METRICS OF KEY EDGE AI SOFTWARE VENDORS****10.9 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY EDGE AI SOFTWARE VENDORS****FIGURE 54 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY EDGE AI SOFTWARE VENDORS****10.10 COMPETITIVE SCENARIO AND TRENDS****10.10.1 PRODUCT LAUNCHES****TABLE 219 EDGE AI SOFTWARE MARKET: PRODUCT LAUNCHES, MARCH 2020–OCTOBER 2023****10.10.2 DEALS****TABLE 220 EDGE AI SOFTWARE MARKET: DEALS, JULY 2020–OCTOBER 2023**

11 COMPANY PROFILES

11.1 INTRODUCTION

11.2 KEY PLAYERS

(Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View)*

11.2.1 MICROSOFT

TABLE 221 MICROSOFT: BUSINESS OVERVIEW

FIGURE 55 MICROSOFT: COMPANY SNAPSHOT

TABLE 222 MICROSOFT: SOLUTIONS/SERVICES OFFERED

TABLE 223 MICROSOFT: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 224 MICROSOFT: DEALS

11.2.2 IBM

TABLE 225 IBM: BUSINESS OVERVIEW

FIGURE 56 IBM: COMPANY SNAPSHOT

TABLE 226 IBM: SOLUTIONS/SERVICES OFFERED

TABLE 227 IBM: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 228 IBM: DEALS

11.2.3 GOOGLE

TABLE 229 GOOGLE: BUSINESS OVERVIEW

FIGURE 57 GOOGLE: COMPANY SNAPSHOT

TABLE 230 GOOGLE: SOLUTIONS/SERVICES OFFERED

TABLE 231 GOOGLE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 232 GOOGLE: DEALS

11.2.4 AWS

TABLE 233 AWS: BUSINESS OVERVIEW

FIGURE 58 AWS: COMPANY SNAPSHOT

TABLE 234 AWS: SOLUTIONS/SERVICES OFFERED

TABLE 235 AWS: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 236 AWS: DEALS

11.2.5 NUTANIX

TABLE 237 NUTANIX: BUSINESS OVERVIEW

FIGURE 59 NUTANIX: COMPANY SNAPSHOT

TABLE 238 NUTANIX: SOLUTIONS/SERVICES OFFERED

TABLE 239 NUTANIX: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 240 NUTANIX: DEALS

11.2.6 SYNAPTICS

TABLE 241 SYNAPTICS: BUSINESS OVERVIEW

FIGURE 60 SYNAPTICS: COMPANY SNAPSHOT

TABLE 242 SYNAPTICS: SOLUTIONS/SERVICES OFFERED

TABLE 243 SYNAPTICS: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 244 SYNAPTICS: DEALS

11.2.7 GORILLA TECHNOLOGY

TABLE 245 GORILLA TECHNOLOGY: BUSINESS OVERVIEW

FIGURE 61 GORILLA TECHNOLOGY: COMPANY SNAPSHOT

TABLE 246 GORILLA TECHNOLOGY: SOLUTIONS/SERVICES OFFERED

TABLE 247 GORILLA TECHNOLOGY: DEALS

TABLE 248 GORILLA TECHNOLOGY: OTHERS

11.2.8 VEEA

TABLE 249 VEEA: BUSINESS OVERVIEW

TABLE 250 VEEA: SOLUTIONS/SERVICES OFFERED

TABLE 251 VEEA: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 252 VEEA: DEALS

11.2.9 ANAGOG

TABLE 253 ANAGOG: BUSINESS OVERVIEW

TABLE 254 ANAGOG: SOLUTIONS/SERVICES OFFERED

TABLE 255 ANAGOG: OTHERS

11.2.10 IMAGIMOB

TABLE 256 IMAGIMOB: BUSINESS OVERVIEW

TABLE 257 IMAGIMOB: SOLUTIONS/SERVICES OFFERED

TABLE 258 IMAGIMOB: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 259 IMAGIMOB: DEALS

11.2.11 TIBCO SOFTWARE

TABLE 260 TIBCO SOFTWARE: BUSINESS OVERVIEW

TABLE 261 TIBCO: SOLUTIONS/SERVICES OFFERED

TABLE 262 TIBCO SOFTWARE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 263 TIBCO SOFTWARE: DEALS

11.2.12 OCTONION

TABLE 264 OCTONION: BUSINESS OVERVIEW

TABLE 265 OCTONION: SOLUTIONS/SERVICES OFFERED

TABLE 266 OCTONION: PRODUCT LAUNCHES AND ENHANCEMENTS

11.2.13 AZION

11.2.14 BRAGI

11.2.15 BLAIZE

11.2.16 TACT.AI

11.2.17 EKinOPS

11.2.18 CLEARBLADE

11.2.19 ALEF EDGE

11.2.20 JOHNSON CONTROLS

*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

11.3 STARTUP/SME PROFILES

11.3.1 BYTELAKE

11.3.2 REALITY AI

11.3.3 DECI AI

11.3.4 EDGEWORX

11.3.5 SWIM.AI

11.3.6 INVISION AI

11.3.7 HORIZON ROBOTICS

11.3.8 KNERON

11.3.9 DEEPBRAINZ

11.3.10 ADAPDIX

12 ADJACENT AND RELATED MARKETS

12.1 INTRODUCTION

12.2 EDGE COMPUTING MARKET

12.2.1 MARKET DEFINITION

12.2.2 MARKET OVERVIEW

12.2.3 EDGE COMPUTING MARKET, BY COMPONENT

TABLE 267 EDGE COMPUTING MARKET, BY COMPONENT, 2018–2022 (USD MILLION)

TABLE 268 EDGE COMPUTING MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

12.2.4 EDGE COMPUTING MARKET, BY APPLICATION

TABLE 269 EDGE COMPUTING MARKET, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 270 EDGE COMPUTING MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

12.2.5 EDGE COMPUTING MARKET, BY ORGANIZATION SIZE

TABLE 271 EDGE COMPUTING MARKET, BY ORGANIZATION SIZE, 2018–2022 (USD MILLION)

TABLE 272 EDGE COMPUTING MARKET, BY ORGANIZATION SIZE, 2023–2028 (USD MILLION)

12.2.6 EDGE COMPUTING MARKET, BY VERTICAL

TABLE 273 EDGE COMPUTING MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 274 EDGE COMPUTING MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

12.2.7 EDGE COMPUTING MARKET, BY REGION

TABLE 275 EDGE COMPUTING MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 276 EDGE COMPUTING MARKET, BY REGION, 2023–2028 (USD MILLION)

12.3 ARTIFICIAL INTELLIGENCE MARKET

12.3.1 MARKET DEFINITION

12.3.2 MARKET OVERVIEW

TABLE 277 ARTIFICIAL INTELLIGENCE MARKET SIZE AND GROWTH RATE,
2017–2022 (USD MILLION, Y-O-Y GROWTH)

TABLE 278 ARTIFICIAL INTELLIGENCE MARKET SIZE AND GROWTH RATE,
2023–2030 (USD BILLION, Y-O-Y GROWTH)

12.3.3 ARTIFICIAL INTELLIGENCE MARKET, BY OFFERING

TABLE 279 ARTIFICIAL INTELLIGENCE MARKET, BY OFFERING, 2017–2022 (USD
MILLION)

TABLE 280 ARTIFICIAL INTELLIGENCE MARKET, BY OFFERING, 2023–2030 (USD
MILLION)

TABLE 281 ARTIFICIAL INTELLIGENCE MARKET, BY HARDWARE, 2017–2022 (USD
MILLION)

TABLE 282 ARTIFICIAL INTELLIGENCE MARKET, BY HARDWARE, 2023–2030 (USD
MILLION)

TABLE 283 ARTIFICIAL INTELLIGENCE MARKET, BY PROCESSOR, 2017–2022
(USD MILLION)

TABLE 284 ARTIFICIAL INTELLIGENCE MARKET, BY PROCESSOR, 2023–2030
(USD MILLION)

TABLE 285 PREDICTIVE ANALYTICS MARKET, BY SERVICE, 2015–2020 (USD
MILLION)

TABLE 286 SOFTWARE: ARTIFICIAL INTELLIGENCE MARKET, BY TYPE,
2017–2022 (USD MILLION)

TABLE 287 SOFTWARE: ARTIFICIAL INTELLIGENCE MARKET, BY TYPE,
2023–2030 (USD MILLION)

TABLE 288 SOFTWARE: ARTIFICIAL INTELLIGENCE MARKET, BY DEPLOYMENT,
2017–2022 (USD MILLION)

TABLE 289 SOFTWARE: ARTIFICIAL INTELLIGENCE MARKET, BY DEPLOYMENT,
2023–2030 (USD MILLION)

TABLE 290 ARTIFICIAL INTELLIGENCE MARKET, BY SERVICE, 2017–2022 (USD
MILLION)

TABLE 291 ARTIFICIAL INTELLIGENCE MARKET, BY SERVICE, 2023–2030 (USD
MILLION)

TABLE 292 ARTIFICIAL INTELLIGENCE MARKET, BY PROFESSIONAL SERVICE,

2017–2022 (USD MILLION)

TABLE 293 ARTIFICIAL INTELLIGENCE MARKET, BY PROFESSIONAL SERVICE,
2023–2030 (USD MILLION)

12.3.4 ARTIFICIAL INTELLIGENCE MARKET, BY DEPLOYMENT MODE

TABLE 294 ARTIFICIAL INTELLIGENCE MARKET, BY TECHNOLOGY, 2017–2022
(USD MILLION)

TABLE 295 ARTIFICIAL INTELLIGENCE MARKET, BY TECHNOLOGY, 2023–2030
(USD MILLION)

TABLE 296 ARTIFICIAL INTELLIGENCE MARKET, BY MACHINE LEARNING,
2017–2022 (USD MILLION)

TABLE 297 ARTIFICIAL INTELLIGENCE MARKET, BY MACHINE LEARNING,
2023–2030 (USD MILLION)

12.3.5 ARTIFICIAL INTELLIGENCE MARKET, BY BUSINESS FUNCTION

TABLE 298 ARTIFICIAL INTELLIGENCE MARKET, BY BUSINESS FUNCTION,
2017–2022 (USD MILLION)

TABLE 299 ARTIFICIAL INTELLIGENCE MARKET, BY BUSINESS FUNCTION,
2023–2030 (USD MILLION)

12.3.6 ARTIFICIAL INTELLIGENCE MARKET, BY VERTICAL

TABLE 300 ARTIFICIAL INTELLIGENCE MARKET, BY VERTICAL, 2017–2022 (USD
MILLION)

TABLE 301 ARTIFICIAL INTELLIGENCE MARKET, BY VERTICAL, 2023–2030 (USD
MILLION)

12.3.7 ARTIFICIAL INTELLIGENCE MARKET, BY REGION

TABLE 302 ARTIFICIAL INTELLIGENCE MARKET, BY REGION, 2017–2022 (USD
MILLION)

TABLE 303 ARTIFICIAL INTELLIGENCE MARKET, BY REGION, 2023–2030 (USD
MILLION)

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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