

Autonomous AI and Autonomous Agents Market by Offering (Hardware, Software (Type (Computational Agents, Robotic Agents)) and Services), Technology (ML, NLP, Context Awareness, Computer Vision), Vertical and Region - Global Forecast to 2028

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Report description:

The market for Autonomous AI and Autonomous Agents is projected to grow from USD 4.8 billion in 2023 to USD 28.5 billion by 2028, at a CAGR of 43.0% during the forecast period. Autonomous AI and autonomous agents are interconnected concepts within the field of AI that involve the ability of systems or entities to function independently, make decisions, and execute tasks without continuous human intervention.

The Software segment is projected to hold the largest market size during the forecast period

Software components play a critical role in enabling the functionality and intelligence of autonomous AI agents, which include robotic agents and computational agents. The software component, tailored to different agent types, enables autonomous AI agents to operate independently, perceive their environment, reason, make decisions, and execute actions to accomplish tasks and achieve objectives.

Computer vision technology is registered to grow at the highest CAGR during the forecast period

Computer vision is a fundamental technology for Autonomous AI and Agents, enabling them to perceive and understand visual information from the surrounding environment. Computer vision algorithms can process images or video streams, identify objects, recognize patterns, and extract meaningful features. For instance, in autonomous vehicles, computer vision enables the detection of pedestrians, vehicles, and traffic signs, allowing the vehicle to make informed decisions and navigate safely. Computer vision empowers autonomous AI and agents to interact with the visual world, making them more aware, intelligent, and capable of performing complex tasks in real-world environments.

Among services, Consulting segment is anticipated to account for the largest market size during the forecast period

Consulting services in the field of Autonomous AI and Agents play a crucial role in guiding organizations through the complex landscape of AI implementation and adoption. These services provide expert guidance, strategic advice, and actionable insights to

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help organizations leverage the power of AI technologies effectively. Consulting services assist organizations in conducting feasibility studies, assessing data readiness, identifying appropriate AI solutions, and defining the implementation plan. Asia Pacific is projected to witness the highest CAGR during the forecast period. The Autonomous AI and Autonomous Agents market in Asia Pacific includes China, Japan, South Korea, ASEAN, India, AnZ, and Rest of Asia Pacific. The region's robust IT infrastructure, coupled with the widespread adoption of emerging technologies such as cloud computing, big data analytics, and the Internet of Things (IoT), provides a solid foundation for the deployment of autonomous systems. The supportive government policies, investment initiatives, and collaborations between industry players, research institutions, and startups in the APAC region contribute to the growth of the autonomous AI and agent market.

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 Autonomous AI and Autonomous Agents 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: 45%, APAC: 30%, Europe: 20%, ROW: 5%

Major vendors offering Autonomous AI and Autonomous Agents solutions and services across the globe are IBM (US), AWS (US), Microsoft (US), Oracle (US), Google (US), Waymo LLC (US), DeepMind (UK), OpenAI (US), Salesforce (US), SAP SE (Germany), NVIDIA Corporation (US), Baidu (China), ServiceNow (US), H2O.ai (US), Genesys (US), Aerogility (UK), Kore.ai (US), Fetch.ai (UK), Automation Anywhere (US), Tecnotree (Finland), C3.ai (US), Helpshift (US), Algotive (US), CognosysAI (US), Level AI (US), Mobileye (Israel), Deeproute.ai (China), Cogito (US), Uber Technologies (US), Attri (US).

Research Coverage

The market study covers Autonomous AI and Autonomous Agents across segments. It aims at estimating the market size and the growth potential across different segments, such as offering, technology, 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 Autonomous AI and Autonomous Agents 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:

-□Analysis of key drivers (Increasing AI Applications as a Catalyst for Autonomous AI and Agents, Increased availability of parallel Computational Resources), restraints (Limited Adaptability and Contextual Understanding in Autonomous AI and Agents, Lack of human-AI interaction and trust), opportunities (Advancements in autonomous AI driving technology to revolutionize transportation systems, Elevating Customer Service and Personalization with Autonomous AI and Agents, Healthcare Advancements with Autonomous AI and Agents), and challenges (Ethical and legal concerns pose significant challenges for Market, Addressing data privacy and security challenges) influencing the growth of the Autonomous AI and Autonomous Agents market

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Autonomous AI and Autonomous Agents market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the Autonomous AI and Autonomous Agents market across varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in Autonomous AI and Autonomous Agents market strategies; the report also helps stakeholders understand the

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pulse of the Autonomous AI and Autonomous Agents 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 IBM (US), Microsoft (US), Google (US), AWS(US) and NVIDIA (US) among others in the Autonomous AI and Autonomous Agents market.

Table of Contents:

1 INTRODUCTION 34

1.1 STUDY OBJECTIVES 34

1.2 MARKET DEFINITION 34

1.3 INCLUSIONS AND EXCLUSIONS 35

1.4 MARKET SCOPE 35

1.4.1 MARKET SEGMENTATION 36

1.4.2 REGIONS COVERED 36

1.4.3 YEARS CONSIDERED 37

1.5 CURRENCY CONSIDERED 37

TABLE 1 USD EXCHANGE RATES, 2020-2022 38

1.6 STAKEHOLDERS 38

2 RESEARCH METHODOLOGY 39

2.1 RESEARCH DATA 39

FIGURE 1 AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET: RESEARCH DESIGN 39

2.1.1 SECONDARY DATA 40

2.1.2 PRIMARY DATA 40

2.1.2.1 Primary interviews 41

2.1.2.2 Breakup of primary profiles 41

2.1.2.3 Key industry insights 42

2.2 DATA TRIANGULATION 43

2.3 MARKET SIZE ESTIMATION 43

FIGURE 2 AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET: TOP-DOWN AND BOTTOM-UP APPROACHES 44

2.3.1 TOP-DOWN APPROACH 44

2.3.2 BOTTOM-UP APPROACH 45

FIGURE 3 APPROACH 1 (SUPPLY SIDE): REVENUE FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET 45

FIGURE 4 APPROACH 2-BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS PLAYERS 46

FIGURE 5 APPROACH 3-BOTTOM-UP (SUPPLY SIDE): REVENUE AND SUBSEQUENT MARKET ESTIMATION FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS 47

FIGURE 6 APPROACH 4-BOTTOM-UP (DEMAND SIDE): SHARE OF AUTONOMOUS AI & AUTONOMOUS AGENTS OFFERING THROUGH OVERALL AUTONOMOUS AI & AUTONOMOUS AGENTS SPENDING 48

2.4 MARKET FORECAST 49

TABLE 2 FACTOR ANALYSIS 49

2.5 ASSUMPTIONS 50

TABLE 3 RESEARCH ASSUMPTIONS 50

2.6 LIMITATIONS 51

2.7 RECESSION IMPACT ON GLOBAL AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET 52

TABLE 4 IMPACT OF RECESSION ON GLOBAL AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET 52

3 EXECUTIVE SUMMARY 54

TABLE 5 □ GLOBAL AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET SIZE AND GROWTH RATE, 2018-2022 (USD MILLION, Y-O-Y%) □ 55

TABLE 6 □ GLOBAL AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET SIZE AND GROWTH RATE, 2023-2028 (USD MILLION, Y-O-Y%) □ 55

FIGURE 7 □ SOFTWARE SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023 □ 55

FIGURE 8 □ PROCESSORS SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023 □ 56

FIGURE 9 □ COMPUTATIONAL SEGMENT TO HOLD LARGER MARKET SIZE IN 2023 □ 56

FIGURE 10 □ CLOUD TO HOLD LARGER MARKET SHARE IN 2023 □ 56

FIGURE 11 □ CONSULTING SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023 □ 57

FIGURE 12 □ MACHINE LEARNING SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023 □ 57

FIGURE 13 □ SUPERVISED LEARNING SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023 □ 57

FIGURE 14 □ BFSI VERTICAL TO HOLD LARGEST MARKET SIZE IN 2023 □ 58

FIGURE 15 □ NORTH AMERICA TO HOLD LARGEST MARKET SHARE IN 2023 □ 58

4 □ PREMIUM INSIGHTS □ 59

4.1 □ ATTRACTIVE MARKET OPPORTUNITIES IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET □ 59

FIGURE 16 □ HIGH DEMAND FOR AUTONOMOUS SOFTWARE TO DRIVE MARKET DURING FORECAST PERIOD □ 59

4.2 □ AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL □ 59

FIGURE 17 □ BFSI VERTICAL TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD □ 59

4.3 □ AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION □ 60

FIGURE 18 □ NORTH AMERICA TO HOLD LARGEST MARKET SHARE BY 2023 □ 60

4.4 □ AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: TOP OFFERING AND VERTICAL □ 60

FIGURE 19 □ SOFTWARE AND BFSI SEGMENTS TO HOLD LARGEST MARKET SHARES BY 2028 □ 60

5 □ MARKET OVERVIEW AND INDUSTRY TRENDS □ 61

5.1 □ INTRODUCTION □ 61

5.2 □ MARKET DYNAMICS □ 61

FIGURE 20 □ AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES □ 61

5.2.1 □ DRIVERS □ 62

5.2.1.1 □ Increasing AI applications to be catalyst for autonomous AI and autonomous agents □ 62

5.2.1.2 □ Increased availability of parallel computational resources □ 62

5.2.2 □ RESTRAINTS □ 62

5.2.2.1 □ Limited adaptability and contextual understanding of autonomous AI and autonomous agents □ 62

5.2.2.2 □ Lack of human-AI interaction and trust □ 63

5.2.3 □ OPPORTUNITIES □ 63

5.2.3.1 □ Advancements in autonomous AI-driving technology to revolutionize transportation systems □ 63

5.2.3.2 □ Elevating customer service and personalization with autonomous AI and autonomous agents □ 64

5.2.3.3 □ Healthcare advancements with autonomous AI and autonomous agents □ 64

5.2.4 □ CHALLENGES □ 64

5.2.4.1 □ Ethical and legal concerns to pose significant challenges for market □ 64

5.2.4.2 □ Data privacy and security challenges □ 65

5.3 □ CASE STUDY ANALYSIS □ 65

5.3.1 □ AUTOMOTIVE, TRANSPORTATION & LOGISTICS □ 65

5.3.1.1 □ Case Study 1: Mayflower autonomous ship's journey fueled by IBM cloud automation □ 65

5.3.1.2 □ Case Study 2: Zoox uses AWS to speed up development of self-driving cars □ 66

5.3.2 □ BFSI □ 66

5.3.2.1 □ Case Study 1: Arabesque AI elevates financial performance analysis with Google cloud platform □ 66

5.3.2.2 □ Case Study 2: Vision Banco improves customer experience with H2O Driverless AI □ 67

5.3.3 □ HEALTHCARE AND LIFE SCIENCES □ 68

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5.3.3.1	Case Study 1: NHS collaborates with DeepMind to drive innovation in digital health	68
5.3.4	MANUFACTURING	68
5.3.4.1	Case Study 1: Stanley Black & Decker to streamline operations with automation	68
5.3.5	RETAIL & E-COMMERCE	69
5.3.5.1	Case Study 1: Simplifying data wrangling for machine learning with consensus	69
5.3.6	MEDIA & ENTERTAINMENT	70
5.3.6.1	Case Study 1: Google Cloud to help Meredith Corporation build scalable data platform	70
5.3.7	ENERGY & UTILITIES	70
5.3.7.1	Case Study 1: Kore.ai helps energy company to improve customer service with conversational AI	70
5.3.7.2	Case Study 2: ENGIE transforms energy management with C3.ai	71
5.3.8	EDUCATION	71
5.3.8.1	Case Study 1: Automation Anywhere's RPA solutions to transform administrative operations at University of Melbourne	71
5.4	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: ECOSYSTEM ANALYSIS	72
FIGURE 21	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: ECOSYSTEM ANALYSIS	72
TABLE 7	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: PLATFORM PROVIDERS	73
TABLE 8	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: SERVICE PROVIDERS	73
TABLE 9	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: END USERS	74
TABLE 10	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: FRAMEWORK PROVIDERS	74
TABLE 11	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: MULTI-AGENT AI FRAMEWORK	75
TABLE 12	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: REGULATORS	75
5.5	PRICING ANALYSIS	75
TABLE 13	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: PRICING LEVELS	76
5.6	PATENT ANALYSIS	77
5.6.1	METHODOLOGY	77
5.6.2	DOCUMENT TYPE	77
TABLE 14	PATENTS FILED, 2013-2023	77
5.6.3	INNOVATION AND PATENT APPLICATIONS	78
FIGURE 22	TOTAL NUMBER OF PATENTS GRANTED, 2013-2023	78
5.6.3.1	Top applicants	78
FIGURE 23	TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2013-2023	78
TABLE 15	TOP 20 PATENT OWNERS, 2013-2023	79
TABLE 16	LIST OF PATENTS IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, 2021-2023	80
5.7	BRIEF EVOLUTION HISTORY OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET	82
5.8	TYPES OF AI TECHNOLOGY, BY FUNCTIONALITY	83
FIGURE 24	ARTIFICIAL INTELLIGENCE, BY FUNCTIONALITY	83
TABLE 17	ARTIFICIAL INTELLIGENCE, BY FUNCTIONALITY	84
5.9	VALUE CHAIN ANALYSIS	85
FIGURE 25	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: VALUE CHAIN ANALYSIS	85
5.9.1	RESEARCH AND DEVELOPMENT (R&D)	85
5.9.2	DATA COLLECTION AND PRE-PROCESSING	86
5.9.3	ALGORITHM DEVELOPMENT AND TRAINING	86
5.9.4	SYSTEM INTEGRATION AND DEPLOYMENT	86
5.9.5	MONITORING AND OPTIMIZATION	86
5.9.6	MAINTENANCE AND SUPPORT	87
5.10	COMPARISON OF AUTONOMOUS AI VERSUS AUTOMATED MACHINE LEARNING	87
TABLE 18	COMPARISON OF AUTO-AI VERSUS AUTO-ML	87
5.11	TECHNOLOGY ANALYSIS	88

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5.11.1	RELATED TECHNOLOGIES	88
5.11.1.1	AI and ML	88
5.11.1.2	Perception and Sensing	88
5.11.1.3	Robotics and Automation	89
5.11.1.4	Human-Machine Interaction	89
5.11.1.5	Connectivity and Networking	90
5.11.2	ALLIED TECHNOLOGIES	90
5.11.2.1	Cloud Computing	90
5.11.2.2	Security and Privacy	91
5.11.2.3	Data Management and Analytics	91
5.12	PORTER'S FIVE FORCES ANALYSIS	92
FIGURE 26	PORTER'S FIVE FORCES ANALYSIS	92
TABLE 19	PORTER'S FIVE FORCES ANALYSIS	92
5.12.1	THREAT OF NEW ENTRANTS	93
5.12.2	THREAT OF SUBSTITUTES	93
5.12.3	BARGAINING POWER OF SUPPLIERS	93
5.12.4	BARGAINING POWER OF BUYERS	93
5.12.5	INTENSITY OF COMPETITIVE RIVALRY	93
5.13	KEY CONFERENCES & EVENTS, 2023-2024	94
TABLE 20	DETAILED LIST OF CONFERENCES & EVENTS, 2023-2024	94
5.14	TARIFF AND REGULATORY LANDSCAPE	95
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	95
TABLE 21	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	95
TABLE 22	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	96
TABLE 23	ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	98
TABLE 24	ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	98
5.14.1.1	North America	99
5.14.1.1.1	US	99
5.14.1.1.2	Canada	99
5.14.1.2	Europe	99
5.14.1.3	Asia Pacific	99
5.14.1.3.1	South Korea	99
5.14.1.3.2	China	100
5.14.1.3.3	India	100
5.14.1.4	Middle East & Africa	100
5.14.1.4.1	UAE	100
5.14.1.4.2	KSA	100
5.14.1.4.3	Bahrain	100
5.14.1.5	Latin America	100
5.14.1.5.1	Brazil	100
5.14.1.5.2	Mexico	101
5.15	KEY STAKEHOLDERS AND BUYING CRITERIA	101
5.15.1	KEY STAKEHOLDERS IN BUYING PROCESS	101
FIGURE 27	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE VERTICALS	101
TABLE 25	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE VERTICALS (%)	101
5.15.2	BUYING CRITERIA	102
FIGURE 28	KEY BUYING CRITERIA FOR TOP THREE VERTICALS	102

TABLE 26	KEY BUYING CRITERIA FOR TOP THREE VERTICALS	102
5.16	TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET	103
FIGURE 29	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS	103
5.17	BEST PRACTICES IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET	103
5.18	TECHNOLOGY ROADMAP OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET LANDSCAPE	104
TABLE 27	SHORT-TERM ROADMAP, 2023-2025	104
TABLE 28	MID-TERM ROADMAP, 2026-2028	104
TABLE 29	LONG-TERM ROADMAP, 2029-2030	105
5.19	BUSINESS MODELS OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET	106
5.19.1	PLATFORM-AS-A-SERVICE (PAAS)	106
5.19.2	SERVICE-BASED MODEL	106
5.19.3	HYBRID MODEL	106
5.20	KEY STAGES OF AUTONOMOUS AI AND AUTONOMOUS AGENTS DEVELOPMENT	107
5.20.1	DATA ACQUISITION AND PREPARATION	107
5.20.2	MODEL DEVELOPMENT AND TRAINING	107
5.20.3	TESTING AND EVALUATION	107
5.20.4	INTEGRATION AND DEPLOYMENT	107
5.20.5	CONTINUOUS MONITORING AND IMPROVEMENT	108
5.20.6	ETHICAL AND LEGAL CONSIDERATIONS	108
6	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING	109
6.1	INTRODUCTION	110
6.1.1	OFFERINGS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS	110
FIGURE 30	SERVICES TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	110
TABLE 30	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2018-2022 (USD MILLION)	111
TABLE 31	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2023-2028 (USD MILLION)	111
6.2	HARDWARE	111
6.2.1	CONSTANT PROGRESS IN HARDWARE TECHNOLOGY TO SERVE AS DRIVING FORCE FOR MARKET EXPANSION	111
FIGURE 31	PROCESSORS TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD	112
TABLE 32	HARDWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	112
TABLE 33	HARDWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	112
6.2.2	PROCESSORS	113
6.2.3	RAM AND STORAGE DEVICES	113
6.2.4	SENSORS AND INPUT DEVICES	113
6.2.5	NETWORK CONNECTIVITY	113
6.3	SOFTWARE	114
6.3.1	GROWING DEMAND FOR SPECIALIZED SOFTWARE ALGORITHMS FOR DIVERSE AUTONOMOUS AI AGENTS	114
FIGURE 32	ROBOTIC AGENT SOFTWARE TO REGISTER HIGHER CAGR DURING FORECAST PERIOD	114
TABLE 34	SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TYPE, 2018-2022 (USD MILLION)	114
TABLE 35	SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TYPE, 2023-2028 (USD MILLION)	115
TABLE 36	SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	115
TABLE 37	SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	115
6.3.2	AUTONOMOUS AI AGENTS	116
6.3.2.1	Robotic Agents	116
TABLE 38	ROBOTIC AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	116
TABLE 39	ROBOTIC AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	117
6.3.2.2	Computational Agents	117
TABLE 40	COMPUTATIONAL AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD	

MILLION)117

TABLE 411COMPUTATIONAL AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)118

6.3.2.2.11Software Agents118

6.3.2.2.1.11Search Agents118

6.3.2.2.1.21Learning Agents119

6.3.2.2.1.31Planning Agents119

6.3.2.2.1.41Conversational Agents119

6.3.2.2.1.51Knowledgeable Agents120

6.3.2.2.1.61Entertainment Agents120

6.3.2.2.1.71Other Agents120

6.3.2.2.21Artificial Life Agents121

6.3.31AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT121

FIGURE 331CLOUD SEGMENT TO WITNESS HIGHER CAGR DURING FORECAST PERIOD121

TABLE 421AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018-2022 (USD MILLION)122

TABLE 431AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023-2028 (USD MILLION)122

6.3.3.11CLOUD122

6.3.3.1.11Ability to quickly access additional computational resources to drive growth122

TABLE 441CLOUD: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)123

TABLE 451CLOUD: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)123

6.3.3.21On-premises123

6.3.3.2.11Demand for stringent data privacy and security policies to drive growth123

TABLE 461ON-PREMISES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)124

TABLE 471ON-PREMISES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)124

6.41SERVICES124

6.4.11DEMAND FOR HIGH-QUALITY SERVICES TO MANAGE AUTONOMOUS SYSTEMS124

FIGURE 341CONSULTING SERVICES TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD125

TABLE 481AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018-2022 (USD MILLION)125

TABLE 491AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023-2028 (USD MILLION)125

TABLE 501SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)126

TABLE 511SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)126

6.4.21CONSULTING SERVICES127

6.4.2.11Increasing requirement for expert guidance and strategic advice to drive growth127

TABLE 521CONSULTING SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)127

TABLE 531CONSULTING SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)127

6.4.31DEPLOYMENT AND INTEGRATION128

6.4.3.11Seamless integration of AI technologies into existing infrastructure to boost growth128

TABLE 541DEPLOYMENT AND INTEGRATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)128

TABLE 551DEPLOYMENT AND INTEGRATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)128

6.4.41TRAINING, SUPPORT, AND MAINTENANCE129

6.4.4.11Ongoing support and maintenance to ensure continuous functionality and reliability129

TABLE 561TRAINING, SUPPORT, AND MAINTENANCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)129

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TABLE 57 TRAINING, SUPPORT, AND MAINTENANCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 129

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7 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY 130

7.1 INTRODUCTION 131

7.1.1 TECHNOLOGY: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS 131

FIGURE 35 COMPUTER VISION TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD 132

TABLE 58 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018-2022 (USD MILLION) 132

TABLE 59 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023-2028 (USD MILLION) 132

7.2 MACHINE LEARNING 133

7.2.1 RISING POTENTIAL BENEFITS OF ML-POWERED AUTONOMOUS SYSTEMS TO BOOST GROWTH 133

FIGURE 36 SUPERVISED LEARNING TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD 133

TABLE 60 MACHINE LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, 2018-2022 (USD MILLION) 133

TABLE 61 MACHINE LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, 2023-2028 (USD MILLION) 134

TABLE 62 MACHINE LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 134

TABLE 63 MACHINE LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 134

7.2.2 DEEP LEARNING 135

7.2.2.1 Availability of labeled datasets and advancements in computing power to boost growth 135

TABLE 64 DEEP LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 135

TABLE 65 DEEP LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 135

7.2.2.2 Supervised learning 136

7.2.2.2.1 Need to leverage labeled data to train intelligent systems 136

TABLE 66 SUPERVISED LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 136

TABLE 67 SUPERVISED LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 136

7.2.2.3 Unsupervised learning 137

7.2.2.3.1 Enhancing autonomy and adaptability of intelligent systems in various domains to drive growth 137

TABLE 68 UNSUPERVISED LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 137

TABLE 69 UNSUPERVISED LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 137

7.2.2.4 Reinforcement learning 138

7.2.2.4.1 Need for AI agents to achieve superhuman performance in complex tasks to boost growth 138

TABLE 70 REINFORCEMENT LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 138

TABLE 71 REINFORCEMENT LEARNING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 138

7.2.2.5 Large Language Model (LLM) 139

7.2.2.5.1 Demand for more natural and engaging human-machine interactions to enhance customer experience 139

TABLE 72 LLM: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 139

TABLE 73 LLM: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 139

7.3 NATURAL LANGUAGE PROCESSING 140

7.3.1 EFFICIENT AUTOMATION OF LANGUAGE-BASED TASKS ACROSS VARIOUS INDUSTRIES TO DRIVE GROWTH 140

TABLE 74 NATURAL LANGUAGE PROCESSING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 140

TABLE 75 NATURAL LANGUAGE PROCESSING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD

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MILLION) 140

7.4 CONTEXT AWARENESS 141

7.4.1 PERSONALIZED USER EXPERIENCES WITH CONTEXT-AWARENESS TO BOOST MARKET 141

TABLE 76 CONTEXT AWARENESS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 141

TABLE 77 CONTEXT AWARENESS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 141

7.5 COMPUTER VISION 142

7.5.1 CONTINUOUS ADVANCEMENTS IN COMPUTER VISION ALGORITHMS, ALONG WITH AVAILABILITY OF POWERFUL HARDWARE AND SENSORS 142

TABLE 78 COMPUTER VISION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 142

TABLE 79 COMPUTER VISION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 142

8 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL 143

8.1 INTRODUCTION 144

8.1.1 VERTICAL: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS 144

FIGURE 37 HEALTHCARE & LIFE SCIENCES TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD 145

TABLE 80 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2018-2022 (USD MILLION) 145

TABLE 81 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2023-2028 (USD MILLION) 146

8.2 BANKING, FINANCIAL SERVICES, AND INSURANCE 146

8.2.1 EMPOWERING FINANCIAL INSTITUTIONS WITH AUTONOMOUS TECHNOLOGY TO DRIVE GROWTH 146

TABLE 82 BFSI: USE CASES 147

TABLE 83 BFSI: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 147

TABLE 84 BFSI: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 148

TABLE 85 BFSI: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION) 148

TABLE 86 BFSI: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 149

8.2.2 FRAUD DETECTION AND PREVENTION 149

8.2.3 RISK ASSESSMENT AND MANAGEMENT 149

8.2.4 ALGORITHMIC TRADING 150

8.2.5 CREDIT SCORING AND UNDERWRITING 150

8.2.6 CUSTOMER SERVICE AUTOMATION (CHATBOTS) 150

8.2.7 INTELLIGENT DOCUMENT PROCESSING 150

8.2.8 INVESTMENT PORTFOLIO MANAGEMENT 151

8.2.9 REGULATORY COMPLIANCE MONITORING 151

8.2.10 OTHER BFSI APPLICATIONS (LOAN DEFAULT PREDICTION, ANTI-MONEY LAUNDERING) 151

8.3 RETAIL & ECOMMERCE 152

8.3.1 ABILITY OF AUTONOMOUS AI AND AGENTS TO PROVIDE PERSONALIZED EXPERIENCES 152

TABLE 87 RETAIL AND E-COMMERCE: USE CASES 152

TABLE 88 RETAIL & ECOMMERCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 153

TABLE 89 RETAIL & ECOMMERCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 153

TABLE 90 RETAIL & ECOMMERCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION) 154

TABLE 91 RETAIL & ECOMMERCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 154

8.3.2 RECOMMENDATION ENGINES 155

8.3.3 VIRTUAL STORES 155

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8.3.4	CHATBOTS AND VIRTUAL ASSISTANTS FOR CUSTOMER SERVICE	155
8.3.5	INVENTORY MANAGEMENT AND OPTIMIZATION	155
8.3.6	DEMAND FORECASTING	156
8.3.7	SUPPLY CHAIN LOGISTICS OPTIMIZATION	156
8.3.8	PRICING OPTIMIZATION	156
8.3.9	AUTOMATED CHECKOUT AND CASHIER SYSTEMS	156
8.3.10	WAREHOUSE AUTOMATION AND ORDER FULFILLMENT	157
8.3.11	OTHER RETAIL & ECOMMERCE APPLICATIONS (QUALITY CONTROL, FRAUD DETECTION AND PREVENTION, AND CUSTOMER SENTIMENT ANALYSIS)	157
8.4	TELECOMMUNICATION	157
8.4.1	IMPROVING CONNECTIVITY AND COMMUNICATION EXPERIENCES TO DRIVE GROWTH	157
TABLE 92	TELECOMMUNICATION: USE CASES	158
TABLE 93	TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	158
TABLE 94	TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS, BY REGION, 2023-2028 (USD MILLION)	159
TABLE 95	TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION)	159
TABLE 96	TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	160
8.4.2	INTELLIGENT NETWORK PLANNING & OPTIMIZATION	160
8.4.3	FAULT DETECTION AND RESOLUTION	160
8.4.4	INTELLIGENT VIRTUAL ASSISTANTS	161
8.4.5	SERVICE QUALITY MANAGEMENT	161
8.4.6	NETWORK SECURITY & THREAT INTELLIGENCE	161
8.4.7	DYNAMIC SERVICE PROVISIONING	161
8.4.8	DATA MONETIZATION AND ANALYTICS	162
8.4.9	AUTONOMOUS BILLING & REVENUE ASSURANCE	162
8.4.10	OTHER TELECOMMUNICATION APPLICATIONS (CUSTOMER CHURN PREDICTION, VIRTUAL NETWORK MANAGEMENT, CALL CENTER AUTOMATION)	162
8.5	MANUFACTURING	163
8.5.1	NEED FOR AGILITY IN RESPONDING TO MARKET DEMANDS TO GAIN MOMENTUM	163
TABLE 97	MANUFACTURING: USE CASES	163
TABLE 98	MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	164
TABLE 99	MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	164
TABLE 100	MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION)	164
TABLE 101	MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	165
8.5.2	QUALITY CONTROL AND INSPECTION	165
8.5.3	PREDICTIVE MAINTENANCE	165
8.5.4	PRODUCT ASSEMBLY AND AUTOMATION	166
8.5.5	COGNITIVE DECISIONING IN RPA/ AI	166
8.5.6	AUTONOMOUS ROBOTICS	166
8.5.7	AUTONOMOUS MATERIAL HANDLING	166
8.5.8	PRODUCTION LINE OPTIMIZATION	167
8.5.9	INVENTORY AND SUPPLY CHAIN MANAGEMENT	167
8.5.10	OTHER MANUFACTURING APPLICATIONS (PRODUCTION LINE OPTIMIZATION, INVENTORY MANAGEMENT)	167

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8.6 HEALTHCARE & LIFE SCIENCES 168

8.6.1 POTENTIAL FOR MEDICAL BREAKTHROUGHS THROUGH APPLICATION OF AUTONOMOUS AI AUTONOMOUS AGENTS TO DRIVE GROWTH 168

TABLE 102 HEALTHCARE AND LIFE SCIENCES: USE CASES 168

TABLE 103 HEALTHCARE & LIFE SCIENCES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 169

TABLE 104 HEALTHCARE & LIFE SCIENCES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 169

TABLE 105 HEALTHCARE & LIFE SCIENCES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION) 169

TABLE 106 HEALTHCARE & LIFE SCIENCES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 170

8.6.2 MEDICAL DIAGNOSIS 170

8.6.3 MEDICAL IMAGING 170

8.6.4 PATIENT DATA ANALYSIS AND PATTERN RECOGNITION 171

8.6.5 DRUG DISCOVERY AND DEVELOPMENT 171

8.6.6 REMOTE PATIENT MONITORING 171

8.6.7 PERSONALIZED HEALTHCARE RECOMMENDATIONS 172

8.6.8 VIRTUAL NURSING ASSISTANTS 172

8.6.9 ROBOTIC SURGERY AND ASSISTANCE 172

8.6.10 OTHER HEALTHCARE APPLICATIONS (CLINICAL RESEARCH AND TRIALS, GENOMICS, AND PRECISION MEDICINE) 172

8.7 ENERGY AND UTILITIES 173

8.7.1 TRANSITION TOWARD CLEAN AND SUSTAINABLE ENERGY SOURCES TO DRIVE GROWTH 173

TABLE 107 ENERGY & UTILITIES: USE CASES 173

TABLE 108 ENERGY & UTILITIES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 174

TABLE 109 ENERGY & UTILITIES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 174

TABLE 110 ENERGY & UTILITIES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION) 174

TABLE 111 ENERGY & UTILITIES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 175

8.7.2 SMART GRID MANAGEMENT AND OPTIMIZATION 175

8.7.3 ENERGY CONSUMPTION MONITORING 175

8.7.4 PREDICTIVE MAINTENANCE FOR ENERGY INFRASTRUCTURE 176

8.7.5 RENEWABLE ENERGY INTEGRATION AND OPTIMIZATION 176

8.7.6 FAULT DETECTION AND DIAGNOSIS 176

8.7.7 ENERGY DEMAND FORECASTING 176

8.7.8 EFFICIENT RESOURCE ALLOCATION 177

8.7.9 GRID SECURITY AND CYBER-THREAT DETECTION 177

8.7.10 OTHER ENERGY & UTILITIES APPLICATIONS (ENERGY ASSET OPTIMIZATION AND DEMAND RESPONSE MANAGEMENT) 177

8.8 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS 177

8.8.1 POTENTIAL TO SIGNIFICANTLY REDUCE HUMAN ERRORS AND ACCIDENTS ON ROADS 177

TABLE 112 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: USE CASES 178

TABLE 113 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 179

TABLE 114 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 179

TABLE 115 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY

APPLICATION, 2018-2022 (USD MILLION) 179

TABLE 116 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 180

8.8.2 PREDICTIVE ANALYTICS & DEMAND FORECASTING 180

8.8.3 TRAFFIC MANAGEMENT AND OPTIMIZATION 180

8.8.4 FLEET MANAGEMENT 181

8.8.5 ROUTE PLANNING AND OPTIMIZATION 181

8.8.6 LAST-MILE DELIVERY AUTOMATION 181

8.8.7 SUPPLY CHAIN OPTIMIZATION 181

8.8.8 WAREHOUSE AUTOMATION 182

8.8.9 SEMI-AUTONOMOUS & AUTONOMOUS VEHICLES 182

8.8.10 OTHER AUTOMOTIVE, TRANSPORTATION AND LOGISTICS APPLICATIONS (PREDICTIVE MAINTENANCE, SMART LOGISTICS AND RISK MANAGEMENT AND SAFETY) 182

8.9 GOVERNMENT & DEFENSE 183

8.9.1 INCREASED DEMAND FOR SECURITY AND SURVEILLANCE TO DRIVE GROWTH 183

TABLE 117 GOVERNMENT & DEFENSE: USE CASES 183

TABLE 118 GOVERNMENT & DEFENSE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 184

TABLE 119 GOVERNMENT & DEFENSE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 184

TABLE 120 GOVERNMENT & DEFENSE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018-2022 (USD MILLION) 185

TABLE 121 GOVERNMENT & DEFENSE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 185

8.9.2 SMART TICKETING 186

8.9.3 AUTONOMOUS SURVEILLANCE AND MONITORING 186

8.9.4 LAW ENFORCEMENT 186

8.9.5 INTELLIGENCE ANALYSIS AND DATA PROCESSING 186

8.9.6 AUTONOMOUS DECISION-MAKING IN MILITARY OPERATIONS 187

8.9.7 BORDER SECURITY AND SURVEILLANCE 187

8.9.8 DISASTER RESPONSE AND RECOVERY ASSISTANCE 187

8.9.9 UNMANNED UNDERWATER AND AERIAL VEHICLES 188

8.9.10 EGOVERNANCE & DIGITAL CITY SERVICES 188

8.9.11 OTHER GOVERNMENT & DEFENSE APPLICATIONS (CYBERSECURITY AND INTELLIGENCE ANALYSIS) 188

8.10 MEDIA & ENTERTAINMENT 189

8.10.1 INCREASING DEMAND FOR PERSONALIZED AND IMMERSIVE CONTENT CAPABILITIES TO DRIVE GROWTH 189

TABLE 122 MEDIA AND ENTERTAINMENT: USE CASES 189

TABLE 123 MEDIA & ENTERTAINMENT: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION) 190

TABLE 124 MEDIA & ENTERTAINMENT: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION) 190

TABLE 125 MEDIA & ENTERTAINMENT: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET IN, BY APPLICATION, 2018-2022 (USD MILLION) 190

TABLE 126 MEDIA & ENTERTAINMENT: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 191

8.10.2 AUTOMATED CONTENT GENERATION 191

8.10.3 VIDEO & AUDIO ANALYSIS 191

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8.10.4	AUDIENCE INSIGHTS AND ANALYTICS	191
8.10.5	REAL-TIME CONTENT MODERATION	192
8.10.6	INTELLECTUAL PROPERTY PROTECTION	192
8.10.7	OTHER MEDIA & ENTERTAINMENT APPLICATIONS	192
8.11	OTHERS	193
TABLE 127	OTHER VERTICALS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	193
TABLE 128	OTHER VERTICALS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	193
9	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION	194
9.1	INTRODUCTION	195
FIGURE 38	SOUTH AFRICA TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD	195
FIGURE 39	ASIA PACIFIC TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD	196
TABLE 129	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018-2022 (USD MILLION)	196
TABLE 130	AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023-2028 (USD MILLION)	196
9.2	NORTH AMERICA	197
9.2.1	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS	197
9.2.2	NORTH AMERICA: IMPACT OF RECESSION	198
FIGURE 40	NORTH AMERICA: MARKET SNAPSHOT	198
TABLE 131	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	199
TABLE 132	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	199
TABLE 133	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2018-2022 (USD MILLION)	199
TABLE 134	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2023-2028 (USD MILLION)	199
TABLE 135	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2018-2022 (USD MILLION)	200
TABLE 136	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2023-2028 (USD MILLION)	200
TABLE 137	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2018-2022 (USD MILLION)	200
TABLE 138	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2023-2028 (USD MILLION)	200
TABLE 139	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018-2022 (USD MILLION)	201
TABLE 140	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023-2028 (USD MILLION)	201
TABLE 141	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018-2022 (USD MILLION)	201
TABLE 142	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023-2028 (USD MILLION)	201
TABLE 143	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018-2022 (USD MILLION)	202
TABLE 144	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023-2028 (USD MILLION)	202
TABLE 145	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2018-2022 (USD MILLION)	202
TABLE 146	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2023-2028 (USD MILLION)	203
TABLE 147	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2018-2022 (USD MILLION)	203
TABLE 148	NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2023-2028 (USD MILLION)	204
9.2.3	US	204
9.2.3.1	Increasing demand for autonomous solutions across industries to drive market	204

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9.2.4 CANADA 205

9.2.4.1 Robust AI ecosystem to drive growth 205

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Autonomous AI and Autonomous Agents Market by Offering (Hardware, Software (Type (Computational Agents, Robotic Agents)) and Services), Technology (ML, NLP, Context Awareness, Computer Vision), Vertical and Region - Global Forecast to 2028

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