

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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Abstracts

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 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 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.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 INCLUSIONS AND EXCLUSIONS
- 1.4 MARKET SCOPE
 - 1.4.1 MARKET SEGMENTATION
 - 1.4.2 REGIONS COVERED
 - 1.4.3 YEARS CONSIDERED
- 1.5 CURRENCY CONSIDERED
- TABLE 1 USD EXCHANGE RATES, 2020–2022
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET: RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary interviews
 - 2.1.2.2 Breakup of primary profiles
 - 2.1.2.3 Key industry insights
 - 2.2 DATA TRIANGULATION
 - 2.3 MARKET SIZE ESTIMATION
 - FIGURE 2 AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET: TOP-DOWN AND BOTTOM-UP APPROACHES
 - 2.3.1 TOP-DOWN APPROACH
 - 2.3.2 BOTTOM-UP APPROACH
 - FIGURE 3 APPROACH 1 (SUPPLY SIDE): REVENUE FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET
 - FIGURE 4 APPROACH 2—BOTTOM-UP (SUPPLY SIDE): COLLECTIVE REVENUE FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS PLAYERS
 - FIGURE 5 APPROACH 3—BOTTOM-UP (SUPPLY SIDE): REVENUE AND SUBSEQUENT MARKET ESTIMATION FROM OFFERING OF AUTONOMOUS AI & AUTONOMOUS AGENTS
 - FIGURE 6 APPROACH 4—BOTTOM-UP (DEMAND SIDE): SHARE OF AUTONOMOUS

AI & AUTONOMOUS AGENTS OFFERING THROUGH OVERALL AUTONOMOUS AI & AUTONOMOUS AGENTS SPENDING

2.4 MARKET FORECAST

TABLE 2 FACTOR ANALYSIS

2.5 ASSUMPTIONS

TABLE 3 RESEARCH ASSUMPTIONS

2.6 LIMITATIONS

2.7 RECESSION IMPACT ON GLOBAL AUTONOMOUS AI & AUTONOMOUS AGENTS MARKET

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

3 EXECUTIVE SUMMARY

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

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

FIGURE 7 SOFTWARE SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023

FIGURE 8 PROCESSORS SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023

FIGURE 9 COMPUTATIONAL SEGMENT TO HOLD LARGER MARKET SIZE IN 2023

FIGURE 10 CLOUD TO HOLD LARGER MARKET SHARE IN 2023

FIGURE 11 CONSULTING SEGMENT TO HOLD LARGEST MARKET SIZE IN 2023

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

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

FIGURE 14 BFSI VERTICAL TO HOLD LARGEST MARKET SIZE IN 2023

FIGURE 15 NORTH AMERICA TO HOLD LARGEST MARKET SHARE IN 2023

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE MARKET OPPORTUNITIES IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET

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

4.2 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL

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

4.3 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION

FIGURE 18 NORTH AMERICA TO HOLD LARGEST MARKET SHARE BY 2023

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

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

5 MARKET OVERVIEW AND INDUSTRY TRENDS

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

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

5.2.1 DRIVERS

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

5.2.1.2 Increased availability of parallel computational resources

5.2.2 RESTRAINTS

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

5.2.2.2 Lack of human-AI interaction and trust

5.2.3 OPPORTUNITIES

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

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

5.2.3.3 Healthcare advancements with autonomous AI and autonomous agents

5.2.4 CHALLENGES

5.2.4.1 Ethical and legal concerns to pose significant challenges for market

5.2.4.2 Data privacy and security challenges

5.3 CASE STUDY ANALYSIS

5.3.1 AUTOMOTIVE, TRANSPORTATION & LOGISTICS

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

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

5.3.2 BFSI

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

5.3.2.2 Case Study 2: Vision Banco improves customer experience with H2O

Driverless AI

5.3.3 HEALTHCARE AND LIFE SCIENCES

5.3.3.1 Case Study 1: NHS collaborates with DeepMind to drive innovation in digital health

5.3.4 MANUFACTURING

5.3.4.1 Case Study 1: Stanley Black & Decker to streamline operations with automation

5.3.5 RETAIL & E-COMMERCE

5.3.5.1 Case Study 1: Simplifying data wrangling for machine learning with consensus

5.3.6 MEDIA & ENTERTAINMENT

5.3.6.1 Case Study 1: Google Cloud to help Meredith Corporation build scalable data platform

5.3.7 ENERGY & UTILITIES

5.3.7.1 Case Study 1: Kore.ai helps energy company to improve customer service with conversational AI

5.3.7.2 Case Study 2: ENGIE transforms energy management with C3.ai

5.3.8 EDUCATION

5.3.8.1 Case Study 1: Automation Anywhere's RPA solutions to transform administrative operations at University of Melbourne

5.4 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: ECOSYSTEM ANALYSIS

FIGURE 21 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: ECOSYSTEM ANALYSIS

TABLE 7 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: PLATFORM PROVIDERS

TABLE 8 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: SERVICE PROVIDERS

TABLE 9 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: END USERS

TABLE 10 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: FRAMEWORK PROVIDERS

TABLE 11 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: MULTI-AGENT AI FRAMEWORK

TABLE 12 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: REGULATORS

5.5 PRICING ANALYSIS

TABLE 13 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: PRICING LEVELS

5.6 PATENT ANALYSIS

5.6.1 METHODOLOGY

5.6.2 DOCUMENT TYPE

TABLE 14 PATENTS FILED, 2013–2023

5.6.3 INNOVATION AND PATENT APPLICATIONS

FIGURE 22 TOTAL NUMBER OF PATENTS GRANTED, 2013–2023

5.6.3.1 Top applicants

FIGURE 23 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2013–2023

TABLE 15 TOP 20 PATENT OWNERS, 2013–2023

TABLE 16 LIST OF PATENTS IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, 2021–2023

5.7 BRIEF EVOLUTION HISTORY OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET

5.8 TYPES OF AI TECHNOLOGY, BY FUNCTIONALITY

FIGURE 24 ARTIFICIAL INTELLIGENCE, BY FUNCTIONALITY

TABLE 17 ARTIFICIAL INTELLIGENCE, BY FUNCTIONALITY

5.9 VALUE CHAIN ANALYSIS

FIGURE 25 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: VALUE CHAIN ANALYSIS

5.9.1 RESEARCH AND DEVELOPMENT (R&D)

5.9.2 DATA COLLECTION AND PRE-PROCESSING

5.9.3 ALGORITHM DEVELOPMENT AND TRAINING

5.9.4 SYSTEM INTEGRATION AND DEPLOYMENT

5.9.5 MONITORING AND OPTIMIZATION

5.9.6 MAINTENANCE AND SUPPORT

5.10 COMPARISON OF AUTONOMOUS AI VERSUS AUTOMATED MACHINE LEARNING

TABLE 18 COMPARISON OF AUTO-AI VERSUS AUTO-ML

5.11 TECHNOLOGY ANALYSIS

5.11.1 RELATED TECHNOLOGIES

5.11.1.1 AI and ML

5.11.1.2 Perception and Sensing

5.11.1.3 Robotics and Automation

5.11.1.4 Human-Machine Interaction

5.11.1.5 Connectivity and Networking

5.11.2 ALLIED TECHNOLOGIES

5.11.2.1 Cloud Computing

5.11.2.2 Security and Privacy

5.11.2.3 Data Management and Analytics

5.12 PORTER'S FIVE FORCES ANALYSIS

FIGURE 26 PORTER'S FIVE FORCES ANALYSIS

TABLE 19 PORTER'S FIVE FORCES ANALYSIS

5.12.1 THREAT OF NEW ENTRANTS

5.12.2 THREAT OF SUBSTITUTES

5.12.3 BARGAINING POWER OF SUPPLIERS

5.12.4 BARGAINING POWER OF BUYERS

5.12.5 INTENSITY OF COMPETITIVE RIVALRY

5.13 KEY CONFERENCES & EVENTS, 2023–2024

TABLE 20 DETAILED LIST OF CONFERENCES & EVENTS, 2023–2024

5.14 TARIFF AND REGULATORY LANDSCAPE

5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 22 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 23 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 24 ROW: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.14.1.1 North America

5.14.1.1.1 US

5.14.1.1.2 Canada

5.14.1.2 Europe

5.14.1.3 Asia Pacific

5.14.1.3.1 South Korea

5.14.1.3.2 China

5.14.1.3.3 India

5.14.1.4 Middle East & Africa

5.14.1.4.1 UAE

5.14.1.4.2 KSA

5.14.1.4.3 Bahrain

5.14.1.5 Latin America

5.14.1.5.1 Brazil

5.14.1.5.2 Mexico

5.15 KEY STAKEHOLDERS AND BUYING CRITERIA

5.15.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 27 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP

THREE VERTICALS

TABLE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE VERTICALS (%)

5.15.2 BUYING CRITERIA

FIGURE 28 KEY BUYING CRITERIA FOR TOP THREE VERTICALS

TABLE 26 KEY BUYING CRITERIA FOR TOP THREE VERTICALS

5.16 TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET

FIGURE 29 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET: TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS

5.17 BEST PRACTICES IN AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET

5.18 TECHNOLOGY ROADMAP OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET LANDSCAPE

TABLE 27 SHORT-TERM ROADMAP, 2023–2025

TABLE 28 MID-TERM ROADMAP, 2026–2028

TABLE 29 LONG-TERM ROADMAP, 2029–2030

5.19 BUSINESS MODELS OF AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET

5.19.1 PLATFORM-AS-A-SERVICE (PAAS)

5.19.2 SERVICE-BASED MODEL

5.19.3 HYBRID MODEL

5.20 KEY STAGES OF AUTONOMOUS AI AND AUTONOMOUS AGENTS DEVELOPMENT

5.20.1 DATA ACQUISITION AND PREPARATION

5.20.2 MODEL DEVELOPMENT AND TRAINING

5.20.3 TESTING AND EVALUATION

5.20.4 INTEGRATION AND DEPLOYMENT

5.20.5 CONTINUOUS MONITORING AND IMPROVEMENT

5.20.6 ETHICAL AND LEGAL CONSIDERATIONS

6 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING

6.1 INTRODUCTION

6.1.1 OFFERINGS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

FIGURE 30 SERVICES TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 30 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY

OFFERING, 2018–2022 (USD MILLION)

TABLE 31 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

6.2 HARDWARE

6.2.1 CONSTANT PROGRESS IN HARDWARE TECHNOLOGY TO SERVE AS DRIVING FORCE FOR MARKET EXPANSION

FIGURE 31 PROCESSORS TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 32 HARDWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 33 HARDWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.2 PROCESSORS

6.2.3 RAM AND STORAGE DEVICES

6.2.4 SENSORS AND INPUT DEVICES

6.2.5 NETWORK CONNECTIVITY

6.3 SOFTWARE

6.3.1 GROWING DEMAND FOR SPECIALIZED SOFTWARE ALGORITHMS FOR DIVERSE AUTONOMOUS AI AGENTS

FIGURE 32 ROBOTIC AGENT SOFTWARE TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

TABLE 34 SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TYPE, 2018–2022 (USD MILLION)

TABLE 35 SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 36 SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 37 SOFTWARE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2 AUTONOMOUS AI AGENTS

6.3.2.1 Robotic Agents

TABLE 38 ROBOTIC AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 39 ROBOTIC AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2.2 Computational Agents

TABLE 40 COMPUTATIONAL AGENTS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 41 COMPUTATIONAL AGENTS: AUTONOMOUS AI AND AUTONOMOUS

AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2.2.1 Software Agents

6.3.2.2.1.1 Search Agents

6.3.2.2.1.2 Learning Agents

6.3.2.2.1.3 Planning Agents

6.3.2.2.1.4 Conversational Agents

6.3.2.2.1.5 Knowledgeable Agents

6.3.2.2.1.6 Entertainment Agents

6.3.2.2.1.7 Other Agents

6.3.2.2.2 Artificial Life Agents

6.3.3 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT

FIGURE 33 CLOUD SEGMENT TO WITNESS HIGHER CAGR DURING FORECAST PERIOD

TABLE 42 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 43 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

6.3.3.1 CLOUD

6.3.3.1.1 Ability to quickly access additional computational resources to drive growth

TABLE 44 CLOUD: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 45 CLOUD: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.3.2 On-premises

6.3.3.2.1 Demand for stringent data privacy and security policies to drive growth

TABLE 46 ON-PREMISES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 47 ON-PREMISES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4 SERVICES

6.4.1 DEMAND FOR HIGH-QUALITY SERVICES TO MANAGE AUTONOMOUS SYSTEMS

FIGURE 34 CONSULTING SERVICES TO HOLD LARGEST MARKET SIZE DURING FORECAST PERIOD

TABLE 48 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 49 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 50 SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 51 SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4.2 CONSULTING SERVICES

6.4.2.1 Increasing requirement for expert guidance and strategic advice to drive growth

TABLE 52 CONSULTING SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 53 CONSULTING SERVICES: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4.3 DEPLOYMENT AND INTEGRATION

6.4.3.1 Seamless integration of AI technologies into existing infrastructure to boost growth

TABLE 54 DEPLOYMENT AND INTEGRATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 55 DEPLOYMENT AND INTEGRATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4.4 TRAINING, SUPPORT, AND MAINTENANCE

6.4.4.1 Ongoing support and maintenance to ensure continuous functionality and reliability

TABLE 56 TRAINING, SUPPORT, AND MAINTENANCE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

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

7 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

7.1.1 TECHNOLOGY: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

FIGURE 35 COMPUTER VISION TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

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

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

7.2 MACHINE LEARNING

7.2.1 RISING POTENTIAL BENEFITS OF ML-POWERED AUTONOMOUS SYSTEMS

TO BOOST GROWTH

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

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

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

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

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

7.2.2 DEEP LEARNING

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

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

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

7.2.2.2 Supervised learning

7.2.2.2.1 Need to leverage labeled data to train intelligent systems

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

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

7.2.2.3 Unsupervised learning

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

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

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

7.2.2.4 Reinforcement learning

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

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

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

7.2.2.5 Large Language Model (LLM)

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

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

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

7.3 NATURAL LANGUAGE PROCESSING

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

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

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

7.4 CONTEXT AWARENESS

7.4.1 PERSONALIZED USER EXPERIENCES WITH CONTEXT-AWARENESS TO BOOST MARKET

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

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

7.5 COMPUTER VISION

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

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

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

8 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL

8.1 INTRODUCTION

8.1.1 VERTICAL: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

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

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

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

8.2 BANKING, FINANCIAL SERVICES, AND INSURANCE

8.2.1 EMPOWERING FINANCIAL INSTITUTIONS WITH AUTONOMOUS TECHNOLOGY TO DRIVE GROWTH

TABLE 82 BFSI: USE CASES

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

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

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

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

8.2.2 FRAUD DETECTION AND PREVENTION

8.2.3 RISK ASSESSMENT AND MANAGEMENT

8.2.4 ALGORITHMIC TRADING

8.2.5 CREDIT SCORING AND UNDERWRITING

8.2.6 CUSTOMER SERVICE AUTOMATION (CHATBOTS)

8.2.7 INTELLIGENT DOCUMENT PROCESSING

8.2.8 INVESTMENT PORTFOLIO MANAGEMENT

8.2.9 REGULATORY COMPLIANCE MONITORING

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

8.3 RETAIL & ECOMMERCE

8.3.1 ABILITY OF AUTONOMOUS AI AND AGENTS TO PROVIDE PERSONALIZED EXPERIENCES

TABLE 87 RETAIL AND E-COMMERCE: USE CASES

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

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

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

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

8.3.2 RECOMMENDATION ENGINES

8.3.3 VIRTUAL STORES

8.3.4 CHATBOTS AND VIRTUAL ASSISTANTS FOR CUSTOMER SERVICE

8.3.5 INVENTORY MANAGEMENT AND OPTIMIZATION

8.3.6 DEMAND FORECASTING

8.3.7 SUPPLY CHAIN LOGISTICS OPTIMIZATION

8.3.8 PRICING OPTIMIZATION

8.3.9 AUTOMATED CHECKOUT AND CASHIER SYSTEMS

8.3.10 WAREHOUSE AUTOMATION AND ORDER FULFILLMENT

8.3.11 OTHER RETAIL & ECOMMERCE APPLICATIONS (QUALITY CONTROL, FRAUD DETECTION AND PREVENTION, AND CUSTOMER SENTIMENT ANALYSIS)

8.4 TELECOMMUNICATION

8.4.1 IMPROVING CONNECTIVITY AND COMMUNICATION EXPERIENCES TO DRIVE GROWTH

TABLE 92 TELECOMMUNICATION: USE CASES

TABLE 93 TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 94 TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS, BY REGION, 2023–2028 (USD MILLION)

TABLE 95 TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 96 TELECOMMUNICATION: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

8.4.2 INTELLIGENT NETWORK PLANNING & OPTIMIZATION

8.4.3 FAULT DETECTION AND RESOLUTION

8.4.4 INTELLIGENT VIRTUAL ASSISTANTS

8.4.5 SERVICE QUALITY MANAGEMENT

8.4.6 NETWORK SECURITY & THREAT INTELLIGENCE

8.4.7 DYNAMIC SERVICE PROVISIONING

8.4.8 DATA MONETIZATION AND ANALYTICS

8.4.9 AUTONOMOUS BILLING & REVENUE ASSURANCE

8.4.10 OTHER TELECOMMUNICATION APPLICATIONS (CUSTOMER CHURN PREDICTION, VIRTUAL NETWORK MANAGEMENT, CALL CENTER AUTOMATION)

8.5 MANUFACTURING

8.5.1 NEED FOR AGILITY IN RESPONDING TO MARKET DEMANDS TO GAIN MOMENTUM

TABLE 97 MANUFACTURING: USE CASES

TABLE 98 MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 99 MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 100 MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018–2022 (USD MILLION)

TABLE 101 MANUFACTURING: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

8.5.2 QUALITY CONTROL AND INSPECTION

8.5.3 PREDICTIVE MAINTENANCE

8.5.4 PRODUCT ASSEMBLY AND AUTOMATION

8.5.5 COGNITIVE DECISIONING IN RPA/ AI

8.5.6 AUTONOMOUS ROBOTICS

8.5.7 AUTONOMOUS MATERIAL HANDLING

8.5.8 PRODUCTION LINE OPTIMIZATION

8.5.9 INVENTORY AND SUPPLY CHAIN MANAGEMENT

8.5.10 OTHER MANUFACTURING APPLICATIONS (PRODUCTION LINE OPTIMIZATION, INVENTORY MANAGEMENT)

8.6 HEALTHCARE & LIFE SCIENCES

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

TABLE 102 HEALTHCARE AND LIFE SCIENCES: USE CASES

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

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

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

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

8.6.2 MEDICAL DIAGNOSIS

8.6.3 MEDICAL IMAGING

8.6.4 PATIENT DATA ANALYSIS AND PATTERN RECOGNITION

8.6.5 DRUG DISCOVERY AND DEVELOPMENT

8.6.6 REMOTE PATIENT MONITORING

8.6.7 PERSONALIZED HEALTHCARE RECOMMENDATIONS

8.6.8 VIRTUAL NURSING ASSISTANTS

8.6.9 ROBOTIC SURGERY AND ASSISTANCE

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

8.7 ENERGY AND UTILITIES

8.7.1 TRANSITION TOWARD CLEAN AND SUSTAINABLE ENERGY SOURCES TO DRIVE GROWTH

TABLE 107 ENERGY & UTILITIES: USE CASES

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

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

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

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

8.7.2 SMART GRID MANAGEMENT AND OPTIMIZATION

8.7.3 ENERGY CONSUMPTION MONITORING

8.7.4 PREDICTIVE MAINTENANCE FOR ENERGY INFRASTRUCTURE

8.7.5 RENEWABLE ENERGY INTEGRATION AND OPTIMIZATION

8.7.6 FAULT DETECTION AND DIAGNOSIS

8.7.7 ENERGY DEMAND FORECASTING

8.7.8 EFFICIENT RESOURCE ALLOCATION

8.7.9 GRID SECURITY AND CYBER-THREAT DETECTION

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

8.8 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS

8.8.1 POTENTIAL TO SIGNIFICANTLY REDUCE HUMAN ERRORS AND ACCIDENTS ON ROADS

TABLE 112 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: USE CASES

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

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

TABLE 115 AUTOMOTIVE, TRANSPORTATION, AND LOGISTICS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY APPLICATION, 2018–2022 (USD MILLION)

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

8.8.2 PREDICTIVE ANALYTICS & DEMAND FORECASTING

8.8.3 TRAFFIC MANAGEMENT AND OPTIMIZATION

8.8.4 FLEET MANAGEMENT

8.8.5 ROUTE PLANNING AND OPTIMIZATION

8.8.6 LAST-MILE DELIVERY AUTOMATION

8.8.7 SUPPLY CHAIN OPTIMIZATION

8.8.8 WAREHOUSE AUTOMATION

8.8.9 SEMI-AUTONOMOUS & AUTONOMOUS VEHICLES

8.8.10 OTHER AUTOMOTIVE, TRANSPORTATION AND LOGISTICS

APPLICATIONS (PREDICTIVE MAINTENANCE, SMART LOGISTICS AND RISK MANAGEMENT AND SAFETY)

8.9 GOVERNMENT & DEFENSE

8.9.1 INCREASED DEMAND FOR SECURITY AND SURVEILLANCE TO DRIVE GROWTH

TABLE 117 GOVERNMENT & DEFENSE: USE CASES

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

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

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

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

8.9.2 SMART TICKETING

8.9.3 AUTONOMOUS SURVEILLANCE AND MONITORING

8.9.4 LAW ENFORCEMENT

8.9.5 INTELLIGENCE ANALYSIS AND DATA PROCESSING

8.9.6 AUTONOMOUS DECISION-MAKING IN MILITARY OPERATIONS

8.9.7 BORDER SECURITY AND SURVEILLANCE

8.9.8 DISASTER RESPONSE AND RECOVERY ASSISTANCE

8.9.9 UNMANNED UNDERWATER AND AERIAL VEHICLES

8.9.10 EGOVERNANCE & DIGITAL CITY SERVICES

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

8.10 MEDIA & ENTERTAINMENT

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

TABLE 122 MEDIA AND ENTERTAINMENT: USE CASES

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

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

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

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

8.10.2 AUTOMATED CONTENT GENERATION

8.10.3 VIDEO & AUDIO ANALYSIS

8.10.4 AUDIENCE INSIGHTS AND ANALYTICS

8.10.5 REAL-TIME CONTENT MODERATION

8.10.6 INTELLECTUAL PROPERTY PROTECTION

8.10.7 OTHER MEDIA & ENTERTAINMENT APPLICATIONS

8.11 OTHERS

TABLE 127 OTHER VERTICALS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 128 OTHER VERTICALS: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

9 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 38 SOUTH AFRICA TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 39 ASIA PACIFIC TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD

TABLE 129 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2018–2022 (USD MILLION)

TABLE 130 AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.2 NORTH AMERICA

9.2.1 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

9.2.2 NORTH AMERICA: IMPACT OF RECESSION

FIGURE 40 NORTH AMERICA: MARKET SNAPSHOT

TABLE 131 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 132 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 133 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 134 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 135 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 136 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 137 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY SOFTWARE TYPE, 2018–2022 (USD MILLION)

TABLE 138 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 139 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 140 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 141 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 142 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 143 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 144 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 145 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 146 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 147 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 148 NORTH AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

9.2.3 US

9.2.3.1 Increasing demand for autonomous solutions across industries to drive market

9.2.4 CANADA

9.2.4.1 Robust AI ecosystem to drive growth

9.3 EUROPE

9.3.1 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

9.3.2 EUROPE: IMPACT OF RECESSION

TABLE 149 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 150 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 151 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 152 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET,

BY OFFERING, 2023–2028 (USD MILLION)

TABLE 153 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 154 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 155 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2018–2022 (USD MILLION)

TABLE 156 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 157 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 158 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 159 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 160 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 161 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 162 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 163 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 164 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 165 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 166 EUROPE: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

9.3.3 UK

9.3.3.1 Investments and initiatives by government to promote market growth

9.3.4 GERMANY

9.3.4.1 Robust industrial base and technological expertise to contribute to market growth

9.3.5 FRANCE

9.3.5.1 Advancements and initiatives in autonomous AI and agents to foster market growth

9.3.6 ITALY

9.3.6.1 Technical advancements to boost market

9.3.7 SPAIN

9.3.7.1 Government-driven efforts to build favorable environment for market

9.3.8 REST OF EUROPE

9.4 ASIA PACIFIC

9.4.1 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET DRIVERS

9.4.2 ASIA PACIFIC: IMPACT OF RECESSION

FIGURE 41 ASIA PACIFIC: MARKET SNAPSHOT

TABLE 167 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 168 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 169 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 170 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 171 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 172 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 173 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2018–2022 (USD MILLION)

TABLE 174 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 175 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 176 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 177 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 178 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 179 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 180 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 181 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 182 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY ML TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 183 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 184 ASIA PACIFIC: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

9.4.3 CHINA

9.4.3.1 AI development to solve real-world problems and drive economic growth

9.4.4 JAPAN

9.4.4.1 Japan's aim to launch AI-driven autonomous ships to boost market

9.4.5 SOUTH KOREA

9.4.5.1 Innovation to harness potential of autonomous AI and agents

9.4.6 ASEAN

9.4.6.1 Rise in technological advancements and innovations to drive growth

9.4.7 INDIA

9.4.7.1 Indian companies to adopt AI-powered solutions

9.4.8 AUSTRALIA AND NEW ZEALAND

9.4.8.1 AI to transform country digitally

9.4.9 REST OF ASIA PACIFIC

9.5 MIDDLE EAST AND AFRICA

9.5.1 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENT
MARKET DRIVERS

9.5.2 MIDDLE EAST AND AFRICA: IMPACT OF RECESSION

TABLE 185 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 186 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 187 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 188 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 189 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 190 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 191 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY SOFTWARE TYPE, 2018–2022 (USD MILLION)

TABLE 192 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS
AGENTS MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 193 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS

AGENTS MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 194 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 195 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 196 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 197 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 198 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 199 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 200 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY ML TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 201 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 202 MIDDLE EAST AND AFRICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

9.5.3 KSA

9.5.3.1 Development of autonomous AI to create new economic opportunities

9.5.4 UAE

9.5.4.1 Demand for automation to fuel market growth

9.5.5 ISRAEL

9.5.5.1 Growing use of autonomous AI and agents for defense and security

9.5.6 TURKEY

9.5.6.1 Rapid technological adoption to drive economic prosperity

9.5.7 SOUTH AFRICA

9.5.7.1 AI and ML to change legal system in country

9.5.8 REST OF MIDDLE EAST AND AFRICA

9.6 LATIN AMERICA

9.6.1 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET DRIVERS

9.6.2 LATIN AMERICA: IMPACT OF RECESSION

TABLE 203 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 204 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 205 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 206 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 207 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY HARDWARE, 2018–2022 (USD MILLION)

TABLE 208 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY HARDWARE, 2023–2028 (USD MILLION)

TABLE 209 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY SOFTWARE TYPE, 2018–2022 (USD MILLION)

TABLE 210 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY SOFTWARE TYPE, 2023–2028 (USD MILLION)

TABLE 211 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY DEPLOYMENT, 2018–2022 (USD MILLION)

TABLE 212 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY DEPLOYMENT, 2023–2028 (USD MILLION)

TABLE 213 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY SERVICE, 2018–2022 (USD MILLION)

TABLE 214 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 215 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 216 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 217 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY ML TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 218 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY ML TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 219 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 220 LATIN AMERICA: AUTONOMOUS AI AND AUTONOMOUS AGENTS

MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

9.6.3 BRAZIL

9.6.3.1 Focus of government on AI to drive growth

9.6.4 MEXICO

9.6.4.1 Technological advancements and growing innovations to drive the adoption of autonomous AI and autonomous agents

9.6.5 REST OF LATIN AMERICA

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 221 STRATEGIES ADOPTED BY KEY PLAYERS

10.3 REVENUE ANALYSIS

FIGURE 42 REVENUE ANALYSIS FOR KEY COMPANIES, 2018–2022

10.4 MARKET SHARE ANALYSIS

FIGURE 43 MARKET SHARE ANALYSIS FOR KEY PLAYERS, 2022

TABLE 222 AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET: INTENSITY OF COMPETITIVE RIVALRY

10.5 EVALUATION QUADRANT MATRIX FOR KEY PLAYERS

10.5.1 STARS

10.5.2 EMERGING LEADERS

10.5.3 PERVASIVE PLAYERS

10.5.4 PARTICIPANTS

FIGURE 44 EVALUATION QUADRANT MATRIX FOR KEY PLAYERS, 2023

10.6 EVALUATION QUADRANT MATRIX FOR SMES/STARTUPS

10.6.1 PROGRESSIVE COMPANIES

10.6.2 RESPONSIVE COMPANIES

10.6.3 DYNAMIC COMPANIES

10.6.4 STARTING BLOCKS

FIGURE 45 EVALUATION QUADRANT MATRIX FOR SMES/STARTUPS, 2023

10.7 COMPETITIVE BENCHMARKING

TABLE 223 COMPETITIVE BENCHMARKING FOR KEY PLAYERS, 2023

TABLE 224 DETAILED LIST OF KEY SMES/STARTUPS

TABLE 225 COMPETITIVE BENCHMARKING OF SMES/STARTUPS, 2023

10.8 AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET: PRODUCT LANDSCAPE

10.8.1 COMPARATIVE ANALYSIS OF AUTONOMOUS AI AND AUTONOMOUS AGENT PRODUCTS

TABLE 226 COMPARATIVE ANALYSIS OF AUTONOMOUS AI AND AUTONOMOUS AGENT PRODUCTS

10.8.2 AI AGENTS

10.8.2.1 Agent GPT

10.8.2.2 BabyAGI

10.8.2.3 AutoGPT

10.8.2.4 AgentLLM

10.8.2.5 Jarvis/HuggingGPT

10.8.2.6 Xircuits

10.8.2.7 MicroGPT

10.8.2.8 AutoGPT.js

10.8.2.9 SFighterAI

10.9 COMPETITIVE SCENARIO

10.9.1 PRODUCT LAUNCHES

TABLE 227 AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET: PRODUCT LAUNCHES, 2020–2023

10.9.2 DEALS

TABLE 228 AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET: DEALS, 2020–2023

10.9.3 OTHERS

TABLE 229 AUTONOMOUS AI AND AUTONOMOUS AGENT MARKET: OTHERS, 2020–2022

10.10 VALUATION AND FINANCIAL METRICS OF KEY AUTONOMOUS AI AND AUTONOMOUS AGENT VENDORS

FIGURE 46 VALUATION AND FINANCIAL METRICS OF KEY AUTONOMOUS AI AND AUTONOMOUS AGENT VENDORS

10.11 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY AUTONOMOUS AI AND AUTONOMOUS AGENT VENDORS

FIGURE 47 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY AUTONOMOUS AI AND AUTONOMOUS AGENT VENDORS

11 COMPANY PROFILES

11.1 INTRODUCTION

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*

11.2 KEY PLAYERS

11.2.1 IBM

TABLE 230 IBM: BUSINESS OVERVIEW

FIGURE 48 IBM: FINANCIAL OVERVIEW

TABLE 231 IBM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 232 IBM: PRODUCT LAUNCHES

TABLE 233 IBM: DEALS

11.2.2 ORACLE

TABLE 234 ORACLE: BUSINESS OVERVIEW

FIGURE 49 ORACLE: COMPANY SNAPSHOT

TABLE 235 ORACLE: PRODUCTS OFFERED

TABLE 236 ORACLE: SERVICES OFFERED

TABLE 237 ORACLE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 238 ORACLE: DEALS

11.2.3 AWS

TABLE 239 AWS: BUSINESS OVERVIEW

FIGURE 50 AWS: COMPANY SNAPSHOT

TABLE 240 AWS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 241 AWS: PRODUCT LAUNCHES

TABLE 242 AWS: DEALS

TABLE 243 AWS: OTHERS

11.2.4 MICROSOFT

TABLE 244 MICROSOFT: BUSINESS OVERVIEW

FIGURE 51 MICROSOFT: COMPANY SNAPSHOT

TABLE 245 MICROSOFT: PRODUCTS OFFERED

TABLE 246 MICROSOFT: SERVICES OFFERED

TABLE 247 MICROSOFT: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 248 MICROSOFT: DEALS

TABLE 249 MICROSOFT: OTHERS

11.2.5 ALPHABET (PARENT COMPANY)

11.2.5.1 Google

TABLE 250 GOOGLE: BUSINESS OVERVIEW

FIGURE 52 GOOGLE: COMPANY SNAPSHOT

TABLE 251 GOOGLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 252 GOOGLE: PRODUCT LAUNCHES

TABLE 253 GOOGLE: DEALS

TABLE 254 GOOGLE: OTHERS

11.2.5.2 Waymo

TABLE 255 WAYMO: BUSINESS OVERVIEW

TABLE 256 WAYMO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 257 WAYMO: DEALS

11.2.5.3 DeepMind

TABLE 258 DEEPMIND: BUSINESS OVERVIEW

TABLE 259 DEEPMIND: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 260 DEEPMIND: PRODUCT LAUNCHES

TABLE 261 DEEPMIND: DEALS

11.2.6 SALESFORCE

TABLE 262 SALESFORCE: BUSINESS OVERVIEW

FIGURE 53 SALESFORCE: COMPANY SNAPSHOT

TABLE 263 SALESFORCE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 264 SALESFORCE: PRODUCT LAUNCHES

TABLE 265 SALESFORCE: DEALS**11.2.7 SAP****TABLE 266 SAP: BUSINESS OVERVIEW****FIGURE 54 SAP: COMPANY SNAPSHOT****TABLE 267 SAP: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 268 SAP: PRODUCT LAUNCHES****TABLE 269 SAP: DEALS****11.2.8 OPENAI****TABLE 270 OPENAI: BUSINESS OVERVIEW****TABLE 271 OPENAI: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 272 OPENAI: PRODUCT LAUNCHES****TABLE 273 OPENAI: DEALS****11.2.9 NVIDIA****TABLE 274 NVIDIA: BUSINESS OVERVIEW****FIGURE 55 NVIDIA: FINANCIAL OVERVIEW****TABLE 275 NVIDIA: PRODUCTS OFFERED****TABLE 276 NVIDIA: PRODUCT LAUNCHES AND ENHANCEMENTS****TABLE 277 NVIDIA: DEALS****11.2.10 BAIDU****TABLE 278 BAIDU: BUSINESS OVERVIEW****FIGURE 56 BAIDU: COMPANY SNAPSHOT****TABLE 279 BAIDU: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 280 BAIDU: PRODUCT LAUNCHES****TABLE 281 BAIDU: DEALS****11.2.11 SERVICENOW****TABLE 282 SERVICENOW: BUSINESS OVERVIEW****FIGURE 57 SERVICENOW: COMPANY SNAPSHOT****TABLE 283 SERVICENOW: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 284 SERVICENOW: PRODUCT LAUNCHES****TABLE 285 SERVICENOW: DEALS****11.2.12 H2O.AI****TABLE 286 H2O.AI: BUSINESS OVERVIEW****TABLE 287 H2O.AI: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 288 H2O.AI: PRODUCT LAUNCHES****TABLE 289 H2O.AI: DEALS****11.2.13 GENESYS****TABLE 290 GENESYS: BUSINESS OVERVIEW****TABLE 291 GENESYS: PRODUCTS/SOLUTIONS/SERVICES OFFERED****TABLE 292 GENESYS: DEALS**

11.2.14 AEROGILITY

TABLE 293 AEROGILITY: BUSINESS OVERVIEW

TABLE 294 AEROGILITY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 295 AEROGILITY: PRODUCT LAUNCHES

TABLE 296 AEROGILITY: DEALS

11.2.15 KORE.AI

TABLE 297 KORE.AI: BUSINESS OVERVIEW

TABLE 298 KORE.AI: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 299 KORE.AI: PRODUCT LAUNCHES

TABLE 300 KORE.AI: DEALS

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

11.3 OTHER PLAYERS

11.3.1 FETCH.AI

11.3.2 AUTOMATION ANYWHERE

11.3.3 TECNOTREE

11.3.4 C3.AI

11.3.5 HELPSHIFT

11.3.6 ALGOTIVE

11.3.7 COGNOSYS

11.3.8 LEVEL AI

11.3.9 MOBILEYE

11.3.10 DEEPROUTE.AI

11.3.11 COGITO

11.3.12 UBER

11.3.13 ATTRI

12 ADJACENT AND RELATED MARKETS

12.1 ADJACENT AND RELATED MARKETS

12.1.1 INTRODUCTION

12.1.2 GENERATIVE AI MARKET—GLOBAL FORECAST TO 2028

12.1.2.1 Market definition

12.1.2.2 Market overview

TABLE 301 GLOBAL GENERATIVE AI MARKET SIZE AND GROWTH RATE, 2019–2022 (USD MILLION, Y-O-Y %)

TABLE 302 GLOBAL GENERATIVE AI MARKET SIZE AND GROWTH RATE, 2023–2028 (USD MILLION, Y-O-Y %)

12.1.2.2.1 Generative AI market, by offering

TABLE 303 GENERATIVE AI MARKET, BY OFFERING, 2019–2022 (USD MILLION)

TABLE 304 GENERATIVE AI MARKET, BY OFFERING, 2023–2028 (USD MILLION)

12.1.2.2.2 Generative AI market, by application

TABLE 305 GENERATIVE AI MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 306 GENERATIVE AI MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

12.1.2.2.3 Generative AI market, by vertical

TABLE 307 GENERATIVE AI MARKET, BY VERTICAL, 2019–2022 (USD MILLION)

TABLE 308 GENERATIVE AI MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

12.1.2.2.4 Generative AI market, by region

TABLE 309 GENERATIVE AI MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 310 GENERATIVE AI MARKET, BY REGION, 2023–2028 (USD MILLION)

12.1.3 CONVERSATIONAL AI MARKET—GLOBAL FORECAST TO 2028

12.1.3.1 Market definition

12.1.3.2 Market overview

12.1.3.2.1 Conversational AI market, by offering

TABLE 311 CONVERSATIONAL AI MARKET, BY OFFERING, 2018–2022 (USD MILLION)

TABLE 312 CONVERSATIONAL AI MARKET, BY OFFERING, 2023–2028 (USD MILLION)

12.1.3.2.2 Conversational AI market, by business function

TABLE 313 CONVERSATIONAL AI MARKET, BY BUSINESS FUNCTION, 2018–2022 (USD MILLION)

TABLE 314 CONVERSATIONAL AI MARKET, BY BUSINESS FUNCTION, 2023–2028 (USD MILLION)

12.1.3.2.3 Conversational AI market, by channel

TABLE 315 CONVERSATIONAL AI MARKET, BY CHANNEL, 2018–2022 (USD MILLION)

TABLE 316 CONVERSATIONAL AI MARKET, BY CHANNEL, 2023–2028 (USD MILLION)

12.1.3.2.4 Conversational AI market, by conversational interface

TABLE 317 CONVERSATIONAL AI MARKET, BY CONVERSATIONAL INTERFACE, 2018–2022 (USD MILLION)

TABLE 318 CONVERSATIONAL AI MARKET, BY CONVERSATIONAL INTERFACE, 2023–2028 (USD MILLION)

12.1.3.2.5 Conversational AI market, by technology

TABLE 319 CONVERSATIONAL AI MARKET BY TECHNOLOGY, 2018–2022 (USD MILLION)

TABLE 320 CONVERSATIONAL AI MARKET, TECHNOLOGY, 2023–2028 (USD MILLION)

12.1.3.2.6 Conversational AI market, by vertical

TABLE 321 CONVERSATIONAL AI MARKET, BY VERTICAL, 2018–2022 (USD MILLION)

TABLE 322 CONVERSATIONAL AI MARKET BY VERTICAL, 2023–2028 (USD MILLION)

12.1.3.2.7 Conversational AI market, by region

TABLE 323 CONVERSATIONAL AI MARKET BY REGION, 2018–2022 (USD MILLION)

TABLE 324 CONVERSATIONAL AI MARKET, BY REGION, 2023–2028 (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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