

Al Code Tools Market by Offering (Tools (Technology (ML, NLP, Generative AI), Deployment Mode) and Services), Application (Data Science & Machine Learning, Cloud Services & DevOps, Web Development), Vertical and Region - Global Forecast to 2028

https://marketpublishers.com/r/A1DCF85D3769EN.html

Date: October 2023

Pages: 333

Price: US\$ 4,950.00 (Single User License)

ID: A1DCF85D3769EN

Abstracts

The global AI code tools market is valued at USD 4.3 billion in 2023 and is estimated to reach USD 12.6 billion by 2028, registering a CAGR of 24.0% during the forecast period. The driving factor behind the rapid adoption and advancement of AI code tools, particularly generative AI coding tools, lies in the transformative impact they have on software development. These tools are ushering in a new era of AI-assisted engineering workflows, enabling developers to code more efficiently and productively. With the emergence of generative AI coding tools, developers receive code suggestions and even entire functions by simply using natural language prompts or working with existing code. These innovations are quickly altering the coding landscape.

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

Al code tools, often referred to as Al code generators, have revolutionized software development by incorporating artificial intelligence and machine learning into the coding process. These tools are designed to assist developers in writing, optimizing, and managing code efficiently. They offer a wide range of functionalities, from code autocompletion and suggestions to automated testing, code review, and even code generation. Al code tools have significantly increased developers' productivity, enabling them to work faster and more effectively. These tools hold the potential to transform the future of software development by making it more accessible, efficient, and error-free.



By Technology, Machine Learning Segment is registered to grow at the highest CAGR during the forecast period

Al code tools, specifically within the domain of machine learning, encompass a dynamic set of technologies, including deep learning, recurrent neural networks (RNNs), and long short-term memory (LSTM) networks. Deep learning techniques delve into the intricate layers of neural networks to extract complex patterns, making them ideal for tasks like image recognition and natural language processing. RNNs and LSTMs, on the other hand, excel in sequential data analysis, allowing for tasks such as time series forecasting and language modeling. These Al code tools in the realm of machine learning form the backbone of intelligent systems, enabling data-driven decision-making and the development of applications that can understand, learn from, and respond to intricate real-world data.

Asia Pacific is projected to witness the highest CAGR during the forecast period.

The Asia-Pacific region stands as a dynamic powerhouse of economic strength and technological advancement, poised to contribute a substantial 70% of global growth in 2023, surpassing other regions. As the region holds more than 50% of the world's population, any technological shifts like those being heralded by AI are expected to shape the future of the region. Many Asian countries such as China, India, Japan, and others are leveraging information-intensive AI technologies, with conversational AI being one of the leading technology trends. Countries like China, Japan, South Korea, India, and Singapore are heavily investing in artificial intelligence (AI), positioning the APAC region as the world's fastest-growing AI market. This emphasis on AI offers vast growth potential and innovation opportunities for software companies.

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 AI code tools 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%, Asia Pacific: 30%, Europe: 20%, RoW: 5%



Major vendors offering AI code tools and services across the globe are IBM (US), Microsoft (US), Google (US), AWS (US), Salesforce (US), Meta (US), OpenAI (US), , Tabnine (Israel), Replit (US), Sourcegraph (US), Moolya (India), Snyk (US), CircleCI (US), JetBrains (Czech Republic), AdaCore (France), WingWare (US), Datadog (US), Lightning AI (US), Kodezi (US), Sourcery.AI (England), CodeWP (US), SinCode AB (Sweden), SQLAI.ai (Germany), Seek AI (US), Enzyme (US), Assistiv.ai (Germany), CodiumAI (Israel), MutableAI (US), Judini (US), and Safurai (Italy).

Research Coverage

The market study covers AI code tools across segments. It aims at estimating the market size and the growth potential across different segments, such as offering, application, 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 Al code tools 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 (Rapid advancements in generative AI is revolutionizing software development, Increased efficiency and productivity with AI code tools, Need to assist developers in tackling complex coding tasks, Transformative shift in the roles of software developers), restraints (Presence of inaccuracies and limitations in AI-generated code poses a significant restraint and Overreliance on AI code tools to hinder the problem-solving abilities), opportunities (Evolution of Application Development with AI-Powered Virtual Developers, Unlocking Innovation through Augmented Software Development (ASD), Emergence of Prompt Engineering in Software Industry), and challenges (Legal and Ethical



Complexities in Al Code Tools, Security challenges faced in Al coding tools, Concerns for biasness in the code generated) influencing the growth of the Al code tools market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Al code tools market.

Market Development: Comprehensive information about lucrative markets – the report analyses the AI code tools market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in AI code tools market strategies; the report also helps stakeholders understand the pulse of the AI code tools 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), Salesforce (US), Meta (US), OpenAI (US) among others in the AI code tools market.



Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.2.1 INCLUSIONS AND EXCLUSIONS
- 1.3 MARKET SCOPE
 - 1.3.1 MARKET SEGMENTATION
 - 1.3.2 REGIONS COVERED
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 AI CODE TOOLS MARKET: RESEARCH DESIGN

- 2.1.1 SECONDARY DATA
- 2.1.2 PRIMARY DATA

TABLE 1 PRIMARY INTERVIEWS

- 2.1.2.1 Breakup of primary profiles
- 2.1.2.2 Key industry insights
- 2.2 DATA TRIANGULATION

FIGURE 2 DATA TRIANGULATION

2.3 MARKET SIZE ESTIMATION

FIGURE 3 AI CODE TOOLS MARKET: TOP-DOWN AND BOTTOM-UP APPROACHES

- 2.3.1 TOP-DOWN APPROACH
- 2.3.2 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 1 (SUPPLY-SIDE): FLOWCHART USING REVENUE FROM AI CODE TOOLS/SERVICES FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 2, BOTTOM-UP (SUPPLY-SIDE): COLLECTIVE REVENUE FROM ALL AI CODE TOOLS /

SERVICE COMPANIES

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 3, BOTTOM-UP (SUPPLY-SIDE): REVENUES OF TOP PLAYERS AND SOURCES OF DATA FIGURE 7 MARKET SIZE ESTIMATION METHODOLOGY - APPROACH 4, BOTTOM-UP (DEMAND-SIDE): OVERALL AI CODE TOOLS SPENDING



2.4 MARKET FORECAST
TABLE 2 FACTOR ANALYSIS
2.5 RESEARCH ASSUMPTIONS
2.6 LIMITATIONS

2.7 IMPLICATIONS OF RECESSION ON AI CODE TOOLS MARKET TABLE 3 IMPACT OF RECESSION ON GLOBAL AI CODE TOOLS MARKET

3 EXECUTIVE SUMMARY

TABLE 4 AI CODE TOOLS MARKET SIZE AND GROWTH RATE, 2017–2022 (USD MILLION, Y-O-Y)

TABLE 5 AI CODE TOOLS MARKET SIZE AND GROWTH RATE, 2023–2028 (USD MILLION, Y-O-Y)

FIGURE 8 TOOLS SEGMENT TO ACCOUNT FOR LARGER SHARE IN 2023 FIGURE 9 MACHINE LEARNING TECHNOLOGY TO ACCOUNT FOR LARGEST MARKET SHARE IN 2023

FIGURE 10 CLOUD DEPLOYMENT TO ACCOUNT FOR LARGER SHARE IN 2023 FIGURE 11 PROFESSIONAL SERVICES TO ACCOUNT FOR LARGER MARKET SIZE IN 2023

FIGURE 12 CONSULTING SERVICES TO ACCOUNT FOR LARGEST SHARE IN 2023

FIGURE 13 DATA SCIENCE & MACHINE LEARNING TO ACCOUNT FOR LARGEST APPLICATION IN 2023

FIGURE 14 BFSI VERTICAL TO ACCOUNT FOR LARGEST MARKET SHARE IN 2023

FIGURE 15 ASIA PACIFIC TO GROW AT HIGHEST CAGR IN AI CODE TOOLS MARKET

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN AI CODE TOOLS MARKET
FIGURE 16 INCREASING DEMAND FOR AUTOMATION AND EFFICIENCY IN
SOFTWARE DEVELOPMENT TO PROPEL ADOPTION OF AI CODE TOOLS
4.2 AI CODE TOOLS MARKET: TOP THREE APPLICATIONS
FIGURE 17 DATA SCIENCE & MACHINE LEARNING APPLICATION EXPECTED TO
HOLD LARGEST MARKET DURING FORECAST PERIOD
4.3 AI CODE TOOLS MARKET, BY OFFERING & VERTICAL
FIGURE 18 TOOLS AND BFSI VERTICAL TO ACCOUNT FOR LARGEST SHARES IN
2023



4.4 AI CODE TOOLS MARKET, BY REGION FIGURE 19 NORTH AMERICA TO ACCOUNT FOR LARGEST SHARE IN 2023

5 MARKET OVERVIEW AND INDUSTRY TRENDS

| E 1 | INIT | RODI | IOT | |
|------|--------|------|--------|-------|
| ວ. ເ | 11/1/1 | RUIJ | J(, I | עונטו |

5.2 MARKET DYNAMICS

FIGURE 20 MARKET DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

- 5.2.1.1 Rapid advancements in generative AI revolutionizing software development
- 5.2.1.2 Increased efficiency and productivity with AI code tools
- 5.2.1.3 Need to assist developers in tackling complex coding tasks
- 5.2.1.4 Transformative shift in roles of software developers

5.2.2 RESTRAINTS

- 5.2.2.1 Presence of inaccuracies and limitations in Al-generated codes
- 5.2.2.2 Overreliance on AI code tools hinder problem-solving abilities

5.2.3 OPPORTUNITIES

- 5.2.3.1 Evolution of application development with Al-powered virtual developers
- 5.2.3.2 Unlocking innovation through augmented software development (ASD)
- 5.2.3.3 Emergence of prompt engineering in software industry

5.2.4 CHALLENGES

- 5.2.4.1 Legal and ethical complexities in AI code tools
- 5.2.4.2 Security challenges faced in AI coding tools
- 5.2.4.3 Concerns for biases in generated code

5.3 INDUSTRY TRENDS

5.3.1 AI CODE TOOLS: ARCHITECTURE

FIGURE 21 AI CODE TOOLS ARCHITECTURE

5.3.2 AI CODE TOOLS: EVOLUTION

FIGURE 22 AI CODE TOOLS MARKET EVOLUTION

5.3.3 VALUE CHAIN ANALYSIS

FIGURE 23 AI CODE TOOLS MARKET: VALUE CHAIN ANALYSIS

5.3.4 ECOSYSTEM ANALYSIS

FIGURE 24 AI CODE TOOLS MARKET ECOSYSTEM

TABLE 6 AI CODE TOOLS MARKET: AI CODE TOOL PROVIDERS

TABLE 7 AI CODE TOOLS MARKET: SERVICE PROVIDERS

TABLE 8 AI CODE TOOLS MARKET: INTEGRATORS

TABLE 9 AI CODE TOOLS MARKET: END USERS

TABLE 10 AI CODE TOOLS MARKET: REGULATORY BODIES



5.3.5 PRICING ANALYSIS

5.3.5.1 Selling prices of key players, by application

FIGURE 25 SELLING PRICES OF KEY PLAYERS FOR TOP THREE APPLICATIONS TABLE 11 SELLING PRICES OF KEY PLAYERS FOR TOP THREE APPLICATIONS (USD)

5.3.5.2 Indicative pricing analysis of AI code tools

TABLE 12 AI CODE TOOLS: PRICING LEVELS

5.3.6 PORTER'S FIVE FORCES ANALYSIS

FIGURE 26 PORTER'S FIVE FORCES ANALYSIS

TABLE 13 AI CODE TOOLS MARKET: PORTER'S FIVE FORCES ANALYSIS

- 5.3.6.1 Threat of new entrants
- 5.3.6.2 Threat of substitutes
- 5.3.6.3 Bargaining power of suppliers
- 5.3.6.4 Bargaining power of buyers
- 5.3.6.5 Intensity of competitive rivalry

5.3.7 TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS OF AI CODE TOOLS MARKET

FIGURE 27 AI CODE TOOLS MARKET: TRENDS/DISRUPTIONS IMPACTING BUYERS/CLIENTS

5.3.8 TECHNOLOGY ANALYSIS

FIGURE 28 AI CODE TOOLS MARKET: TECHNOLOGY ANALYSIS

- 5.3.8.1 Key technologies
 - 5.3.8.1.1 Machine learning
- 5.3.8.1.2 Natural language processing
- 5.3.8.1.3 Generative AI
- 5.3.8.1.4 Containerization and microservices
- 5.3.8.2 Adjacent technologies
 - 5.3.8.2.1 Big data
 - 5.3.8.2.2 Predictive analytics
 - 5.3.8.2.3 Cloud computing
 - 5.3.8.2.4 Cybersecurity
 - 5.3.8.2.5 Graph databases
- 5.3.9 CASE STUDY ANALYSIS
- 5.3.10 IT & ITES
- 5.3.10.1 Case study 1: Al-powered coding assistant, Tabnine, increased productivity at CI&T
 - 5.3.10.2 Case study 2: Nutanix addressed Log4j vulnerability using Sourcegraph
- 5.3.11 BANKING, FINANCIAL SERVICES, AND INSURANCE
 - 5.3.11.1 Case study 3: Neo Financial transformed developer productivity and



codebase management with Sourcegraph

- 5.3.11.2 Case study 4: PayPay achieved scalability and reliability with CircleCl for CI/CD solutions
 - 5.3.12 HEALTHCARE & LIFE SCIENCES
- 5.3.12.1 Case study 5: Baracoda accelerated health-related IoT products with CircleCI
- 5.3.12.2 Case study 6: HealthLabs.com achieved enhanced developer productivity and well-being with CircleCI
 - 5.3.13 RETAIL & ECOMMERCE
 - 5.3.13.1 Case study 7: CircleCl helped Bolt optimize and streamline its build pipelines
- 5.3.13.2 Case study 8: CircleCI helped BRIKL meet customer demands, maintain competitive edge, and drive future growth
 - 5.3.14 TRANSPORTATION & LOGISTICS
- 5.3.14.1 Case study 9: Lyft achieved successful transition from monolithic PHP application to microservices architecture with Sourcegraph
 - 5.3.15 EDUCATION
- 5.3.15.1 Case study 10: MagicSchool revolutionized education by seamlessly integrating AI into daily workflow of teachers
 - 5.3.16 PATENT ANALYSIS
 - 5.3.16.1 Methodology
 - 5.3.16.2 Document Type
- TABLE 14 PATENTS FILED, 2013–2023
 - 5.3.16.3 Innovation and patent applications
- FIGURE 29 TOTAL NUMBER OF PATENTS GRANTED, 2013–2023
 - 5.3.16.3.1 Top applicants
- FIGURE 30 TOP TEN COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS, 2013–2023
- TABLE 15 TOP 20 PATENT OWNERS, 2013–2023
- TABLE 16 LIST OF PATENTS IN AI CODE TOOLS MARKET, 2021–2023
 - 5.3.17 KEY CONFERENCES & EVENTS, 2023-2024
- TABLE 17 DETAILED LIST OF CONFERENCES & EVENTS, 2023-2024
 - 5.3.18 TARIFFS AND REGULATORY LANDSCAPE
- 5.3.18.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 18 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 19 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
- TABLE 20 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT



AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

- 5.3.18.2 North America
 - 5.3.18.2.1 US
- 5.3.18.2.2 Canada
- 5.3.18.3 Europe
- 5.3.18.4 Asia Pacific
 - 5.3.18.4.1 South Korea
 - 5.3.18.4.2 China
 - 5.3.18.4.3 India
- 5.3.18.5 Middle East & Africa
 - 5.3.18.5.1 UAE
 - 5.3.18.5.2 KSA
 - 5.3.18.5.3 Bahrain
- 5.3.18.6 Latin America
 - 5.3.18.6.1 Brazil
 - 5.3.18.6.2 Mexico

5.3.19 KEY STAKEHOLDERS AND BUYING CRITERIA

5.3.19.1 Key stakeholders in buying process

FIGURE 31 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP THREE VERTICALS

TABLE 22 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE VERTICALS

5.3.19.2 Buying criteria

FIGURE 32 KEY BUYING CRITERIA FOR TOP THREE VERTICALS

TABLE 23 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS

- 5.3.20 BEST PRACTICES IN AI CODE TOOLS MARKET
- 5.3.21 TECHNOLOGY ROADMAP OF AI CODE TOOLS MARKET

TABLE 24 SHORT-TERM ROADMAP, 2023–2025

TABLE 25 MID-TERM ROADMAP, 2026–2028

TABLE 26 LONG-TERM ROADMAP, 2029-2030

- 5.3.22 BUSINESS MODELS OF AI CODE TOOLS MARKET
 - 5.3.22.1 Subscription-based services
 - 5.3.22.2 Pay-per-use or pay-per-query
 - 5.3.22.3 Enterprise licensing and customization
 - 5.3.22.4 Open source with premium features
 - 5.3.22.5 API and Platform as a Service (PaaS)
- 5.3.23 KEY FUNCTIONALITIES OF AI CODE TOOLS



- 5.3.23.1 Code autocompletion and suggestions
- 5.3.23.2 Code optimization and refactoring
- 5.3.23.3 Code generation
- 5.3.23.4 Automated testing and test generation
- 5.3.23.5 Code review and quality analysis
- 5.3.23.6 Code analytics
- 5.3.23.7 Bug detection and prevention
- 5.3.23.8 Version control
- 5.3.23.9 Documentation generation

6 AI CODE TOOLS MARKET, BY OFFERING

6.1 INTRODUCTION

6.1.1 OFFERING: AI CODE TOOLS MARKET DRIVERS

FIGURE 33 SERVICES SEGMENT TO WITNESS HIGHER CAGR DURING FORECAST PERIOD

TABLE 27 AI CODE TOOLS MARKET, BY OFFERING, 2017–2022 (USD MILLION) TABLE 28 AI CODE TOOLS MARKET, BY OFFERING, 2023–2028 (USD MILLION) 6.2 TOOLS

6.2.1 AI CODE TOOLS TO EMPOWER DEVELOPERS CREATE PREDICTIVE MODELS AND DATA-DRIVEN APPLICATIONS

TABLE 29 TOOLS: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 30 TOOLS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

- 6.2.2 DEPLOYMENT MODE
- 6.2.2.1 Cloud deployment mode to offer scalability, easy availability, and reduced expenditure
- FIGURE 34 CLOUD SEGMENT TO WITNESS HIGHER CAGR DURING FORECAST PERIOD
- TABLE 31 AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)
- TABLE 32 AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)
 - 6.2.2.2 Cloud
- 6.2.2.1 Cloud solutions to facilitate development of AI applications that can adapt to changing workloads and data demands
- TABLE 33 CLOUD: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)



TABLE 34 CLOUD: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.2.2.3 On-premises

6.2.2.3.1 On-premises AI code tools to provide high level of security and compliance adherence

TABLE 35 ON-PREMISES: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 36 ON-PREMISES: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3 SERVICES

6.3.1 SERVICES TO SUSTAIN PERFORMANCE OF AI SYSTEMS, MINIMIZE DOWNTIME, AND RESOLVE ISSUES PROMPTLY

FIGURE 35 PROFESSIONAL SERVICES SEGMENT TO HOLD LARGEST MARKET DURING FORECAST PERIOD

TABLE 37 AI CODE TOOLS MARKET, BY SERVICE, 2017–2022 (USD MILLION) TABLE 38 AI CODE TOOLS MARKET, BY SERVICE, 2023–2028 (USD MILLION) 6.3.2 PROFESSIONAL SERVICES

6.3.2.1 Professional services to drive innovation, automation, and data-driven decision-making across diverse industries

FIGURE 36 SUPPORT & MAINTENANCE SEGMENT TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

TABLE 39 PROFESSIONAL SERVICES: AI CODE TOOLS MARKET, BY TYPE, 2017–2022 (USD MILLION)

TABLE 40 PROFESSIONAL SERVICES: AI CODE TOOLS MARKET, BY TYPE, 2023–2028 (USD MILLION)

TABLE 41 PROFESSIONAL SERVICES: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 42 PROFESSIONAL SERVICES: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2.2 Consulting

TABLE 43 CONSULTING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 44 CONSULTING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2.3 Training

TABLE 45 TRAINING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 46 TRAINING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)



6.3.2.4 System integration & implementation

TABLE 47 SYSTEM INTEGRATION & IMPLEMENTATION: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 48 SYSTEM INTEGRATION & IMPLEMENTATION: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.2.5 Support & maintenance

TABLE 49 SUPPORT & MAINTENANCE: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 50 SUPPORT & MAINTENANCE: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3.3 MANAGED SERVICES

6.3.3.1 Managed services to offer comprehensive approach to AI implementation TABLE 51 MANAGED SERVICES: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 52 MANAGED SERVICES: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

7 AI CODE TOOLS MARKET, BY TECHNOLOGY

7.1 INTRODUCTION

7.1.1 TECHNOLOGY: AI CODE TOOLS MARKET DRIVERS

FIGURE 37 MACHINE LEARNING SEGMENT TO HOLD LARGEST MARKET DURING FORECAST PERIOD

TABLE 53 TOOLS: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2017–2022 (USD MILLION)

TABLE 54 TOOLS: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

7.2 MACHINE LEARNING

7.2.1 MACHINE LEARNING TECHNIQUES TO ENABLE DATA-DRIVEN DECISION-MAKING

TABLE 55 MACHINE LEARNING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 56 MACHINE LEARNING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

7.2.2 DEEP LEARNING

7.2.2.1 Recurrent neural networks

7.2.2.2 Long short-term memory (LSTM)

7.3 NATURAL LANGUAGE PROCESSING

7.3.1 NLP-BASED AI CODE TOOLS TO TRANSFORM CUSTOMER SERVICE,



CONTENT GENERATION, AND INFORMATION RETRIEVAL

TABLE 57 NATURAL LANGUAGE PROCESSING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 58 NATURAL LANGUAGE PROCESSING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

7.3.2 NATURAL LANGUAGE UNDERSTANDING (NLU)

7.3.3 NATURAL LANGUAGE INTERFACE FOR CODE

7.4 GENERATIVE AI

7.4.1 GENERATIVE AI TO AUTOMATE REPETITIVE CODING TASKS AND INCREASE PRODUCTIVITY

TABLE 59 GENERATIVE AI: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 60 GENERATIVE AI: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

7.4.2 LARGE LANGUAGE MODELS (LLMS)

7.4.3 CODE GENERATION MODELS

8 AI CODE TOOLS MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 38 DATA SCIENCE & MACHINE LEARNING APPLICATION TO HOLD LARGEST MARKET DURING FORECAST PERIOD

TABLE 61 AI CODE TOOLS MARKET, BY APPLICATION, 2017–2022 (USD MILLION) TABLE 62 AI CODE TOOLS MARKET, BY APPLICATION, 2023–2028 (USD MILLION) 8.2 DATA SCIENCE & MACHINE LEARNING

8.2.1 AI CODE TOOLS TO AUTOMATE DATA CLEANING AND DATA TRANSFORMATION TASKS, SAVING TIME AND REDUCING RISK OF HUMAN ERRORS

TABLE 63 DATA SCIENCE & MACHINE LEARNING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 64 DATA SCIENCE & MACHINE LEARNING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 CLOUD SERVICES & DEVOPS

8.3.1 AI CODE TOOLS TO AUTOMATE AND STREAMLINE DEVOPS PROCESSES TABLE 65 CLOUD SERVICES & DEVOPS: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 66 CLOUD SERVICES & DEVOPS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 WEB DEVELOPMENT



8.4.1 AI CODE TOOLS TO ENHANCE EFFICIENCY, SPEED, AND QUALITY OF WEB DEVELOPMENT PROJECTS

TABLE 67 WEB DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 68 WEB DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 MOBILE APP DEVELOPMENT

8.5.1 AI ALGORITHMS TO ASSIST IN ENHANCED USER EXPERIENCES, PERSONALIZED RECOMMENDATIONS, VOICE RECOGNITION, AND PREDICTIVE ANALYTICS

TABLE 69 MOBILE APP DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 70 MOBILE APP DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.6 GAMING DEVELOPMENT

8.6.1 AI CODE TOOLS TO CREATE IMMERSIVE AND ENGAGING GAMING EXPERIENCES

TABLE 71 GAME DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 72 GAME DEVELOPMENT: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.7 EMBEDDED SYSTEMS

8.7.1 AI-DRIVEN CODE GENERATION TO TRANSFORM FIELD OF EMBEDDED SYSTEM DEVELOPMENT

TABLE 73 EMBEDDED SYSTEMS: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 74 EMBEDDED SYSTEMS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

8.8 OTHER APPLICATIONS

TABLE 75 OTHER APPLICATIONS: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 76 OTHER APPLICATIONS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9 AI CODE TOOLS MARKET, BY VERTICAL

9.1 INTRODUCTION

9.1.1 VERTICAL: AI CODE TOOLS MARKET DRIVERS TABLE 77 MAJOR USE CASES, BY VERTICAL



FIGURE 39 HEALTHCARE & LIFE SCIENCES VERTICAL TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 78 AI CODE TOOLS MARKET, BY VERTICAL, 2017–2022 (USD MILLION) TABLE 79 AI CODE TOOLS MARKET, BY VERTICAL, 2023–2028 (USD MILLION) 9.2 BFSI

9.2.1 AUTOMATION OF DOCUMENT PROCESSING AND ANALYSIS TO ENSURE EFFICIENCY AND AGILITY

TABLE 80 BFSI: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION) TABLE 81 BFSI: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION) 9.3 IT & ITES

9.3.1 AI CODE TOOLS TO REDUCE HUMAN ERRORS AND ACCELERATE PROJECT TIMELINES

TABLE 82 IT & ITES: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 83 IT & ITES: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.4 HEALTHCARE & LIFE SCIENCES

9.4.1 AI CODE TOOLS TO REVOLUTIONIZE DRUG DISCOVERY AND DEVELOPMENT OF PERSONALIZED MEDICINE

TABLE 84 HEALTHCARE & LIFE SCIENCES: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 85 HEALTHCARE & LIFE SCIENCES: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.5 MANUFACTURING

9.5.1 INTEGRATION OF AI CODE TOOLS TO OPTIMIZE PRODUCTION PROCESSES, REDUCE COSTS, AND ENHANCE PRODUCT QUALITY TABLE 86 MANUFACTURING: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 87 MANUFACTURING: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.6 RETAIL & ECOMMERCE

9.6.1 AI-DRIVEN VIRTUAL HELPERS TO MAKE SHOPPING EXPERIENCE EFFICIENT AND INTERACTIVE

TABLE 88 RETAIL & ECOMMERCE: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 89 RETAIL & ECOMMERCE: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.7 TELECOMMUNICATIONS

9.7.1 AI CODE TOOLS TO OPTIMIZE NETWORK MANAGEMENT, ENHANCE



CUSTOMER EXPERIENCES, AND IMPROVE SECURITY MEASURES
TABLE 90 TELECOMMUNICATIONS: AI CODE TOOLS MARKET, BY REGION,
2017–2022 (USD MILLION)

TABLE 91 TELECOMMUNICATIONS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.8 GOVERNMENT & PUBLIC SECTOR

9.8.1 AI APPLICATIONS TO ENHANCE EFFICIENCY, ACCURACY, AND CITIZEN-CENTRIC GOVERNANCE

TABLE 92 GOVERNMENT & PUBLIC SECTOR: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 93 GOVERNMENT & PUBLIC SECTOR: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.9 MEDIA & ENTERTAINMENT

9.9.1 AI CODE TOOLS TO ENHANCE CONTENT PERSONALIZATION, PRODUCTION EFFICIENCY, AND AUDIENCE ENGAGEMENT

TABLE 94 MEDIA & ENTERTAINMENT: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 95 MEDIA & ENTERTAINMENT: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

9.10 OTHER VERTICALS

TABLE 96 OTHER VERTICALS: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 97 OTHER VERTICALS: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

10 AI CODE TOOLS MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 40 SOUTH AFRICA TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 41 ASIA PACIFIC TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD

TABLE 98 AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION) TABLE 99 AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION) 10.2 NORTH AMERICA

10.2.1 NORTH AMERICA: AI CODE TOOLS MARKET DRIVERS

10.2.2 NORTH AMERICA: IMPACT OF RECESSION

FIGURE 42 NORTH AMERICA: MARKET SNAPSHOT

TABLE 100 NORTH AMERICA: AI CODE TOOLS MARKET, BY COUNTRY,



2017-2022 (USD MILLION)

TABLE 101 NORTH AMERICA: AI CODE TOOLS MARKET, BY COUNTRY,

2023-2028 (USD MILLION)

TABLE 102 NORTH AMERICA: AI CODE TOOLS MARKET, BY OFFERING,

2017–2022 (USD MILLION)

TABLE 103 NORTH AMERICA: AI CODE TOOLS MARKET, BY OFFERING,

2023-2028 (USD MILLION)

TABLE 104 NORTH AMERICA: AI CODE TOOLS MARKET, BY TECHNOLOGY,

2017-2022 (USD MILLION)

TABLE 105 NORTH AMERICA: AI CODE TOOLS MARKET, BY TECHNOLOGY,

2023-2028 (USD MILLION)

TABLE 106 NORTH AMERICA: AI CODE TOOLS MARKET, BY DEPLOYMENT

MODE, 2017-2022 (USD MILLION)

TABLE 107 NORTH AMERICA: AI CODE TOOLS MARKET, BY DEPLOYMENT

MODE, 2023-2028 (USD MILLION)

TABLE 108 NORTH AMERICA: AI CODE TOOLS MARKET, BY SERVICE, 2017-2022

(USD MILLION)

TABLE 109 NORTH AMERICA: AI CODE TOOLS MARKET, BY SERVICE, 2023-2028

(USD MILLION)

TABLE 110 NORTH AMERICA: AI CODE TOOLS MARKET, BY PROFESSIONAL

SERVICE, 2017–2022 (USD MILLION)

TABLE 111 NORTH AMERICA: AI CODE TOOLS MARKET, BY PROFESSIONAL

SERVICE, 2023–2028 (USD MILLION)

TABLE 112 NORTH AMERICA: AI CODE TOOLS MARKET, BY APPLICATION,

2017-2022 (USD MILLION)

TABLE 113 NORTH AMERICA: AI CODE TOOLS MARKET, BY APPLICATION,

2023-2028 (USD MILLION)

TABLE 114 NORTH AMERICA: AI CODE TOOLS MARKET, BY VERTICAL,

2017-2022 (USD MILLION)

TABLE 115 NORTH AMERICA: AI CODE TOOLS MARKET, BY VERTICAL,

2023-2028 (USD MILLION)

10.2.3 US

10.2.3.1 Government policies and increasing number of tech startups to drive market

10.2.4 CANADA

10.2.4.1 Focus on AI and government investments to fuel market growth

10.3 EUROPE

10.3.1 EUROPE: AI CODE TOOLS MARKET DRIVERS

10.3.2 EUROPE: IMPACT OF RECESSION

TABLE 116 EUROPE: AI CODE TOOLS MARKET, BY COUNTRY, 2017-2022 (USD



MILLION)

TABLE 117 EUROPE: AI CODE TOOLS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 118 EUROPE: AI CODE TOOLS MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 119 EUROPE: AI CODE TOOLS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 120 EUROPE: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2017–2022 (USD MILLION)

TABLE 121 EUROPE: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 122 EUROPE: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 123 EUROPE: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 124 EUROPE: AI CODE TOOLS MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 125 EUROPE: AI CODE TOOLS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 126 EUROPE: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2017–2022 (USD MILLION)

TABLE 127 EUROPE: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2023–2028 (USD MILLION)

TABLE 128 EUROPE: AI CODE TOOLS MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 129 EUROPE: AI CODE TOOLS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 130 EUROPE: AI CODE TOOLS MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 131 EUROPE: AI CODE TOOLS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.3.3 UK

10.3.3.1 Robust regulatory frameworks and research excellence to propel market 10.3.4 GERMANY

10.3.4.1 Highly skilled labor force and strong infrastructure to drive adoption of AI and ML technologies

10.3.5 FRANCE

10.3.5.1 Increasing funding for AI startups to fuel development of AI ecosystem 10.3.6 SPAIN



10.3.6.1 Public-private collaboration programs that integrate AI across various vertical sectors to drive digital transformation

10.3.7 ITALY

10.3.7.1 Agility in adopting latest technological advancements to fuel market growth 10.3.8 REST OF EUROPE

10.4 ASIA PACIFIC

10.4.1 ASIA PACIFIC: AI CODE TOOLS MARKET DRIVERS

10.4.2 ASIA PACIFIC: IMPACT OF RECESSION

FIGURE 43 ASIA PACIFIC: MARKET SNAPSHOT

TABLE 132 ASIA PACIFIC: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 133 ASIA PACIFIC: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 134 ASIA PACIFIC: AI CODE TOOLS MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 135 ASIA PACIFIC: AI CODE TOOLS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 136 ASIA PACIFIC: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2017–2022 (USD MILLION)

TABLE 137 ASIA PACIFIC: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 138 ASIA PACIFIC: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 139 ASIA PACIFIC: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 140 ASIA PACIFIC: AI CODE TOOLS MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 141 ASIA PACIFIC: AI CODE TOOLS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 142 ASIA PACIFIC: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2017–2022 (USD MILLION)

TABLE 143 ASIA PACIFIC: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2023–2028 (USD MILLION)

TABLE 144 ASIA PACIFIC: AI CODE TOOLS MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 145 ASIA PACIFIC: AI CODE TOOLS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 146 ASIA PACIFIC: AI CODE TOOLS MARKET, BY VERTICAL, 2017–2022 (USD MILLION)



TABLE 147 ASIA PACIFIC: AI CODE TOOLS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.4.3 CHINA

10.4.3.1 Government R&D initiatives and global investments to boost market

10.4.4 JAPAN

10.4.4.1 Robust integration of Al into robotics to boost market

10.4.5 INDIA

10.4.5.1 India's technological ecosystem supported by government policies and increased R&D investments to fuel market growth

10.4.6 ASEAN COUNTRIES

10.4.6.1 Competitive wages, improved business regulations, upgraded infrastructure, and growing domestic demand to accelerate growth

10.4.7 AUSTRALIA & NEW ZEALAND

10.4.7.1 Increasing resilience and investments in software tools to bolster market 10.4.8 REST OF ASIA PACIFIC

10.5 MIDDLE EAST & AFRICA

10.5.1 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET DRIVERS

10.5.2 MIDDLE EAST & AFRICA: IMPACT OF RECESSION

TABLE 148 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 149 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 150 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 151 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 152 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2017–2022 (USD MILLION)

TABLE 153 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY

TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 154 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)

TABLE 155 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 156 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 157 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 158 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY



PROFESSIONAL SERVICE, 2017–2022 (USD MILLION)

TABLE 159 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY

PROFESSIONAL SERVICE, 2023–2028 (USD MILLION)

TABLE 160 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 161 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 162 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 163 MIDDLE EAST & AFRICA: AI CODE TOOLS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.5.3 UAE

10.5.3.1 Government initiatives aimed at fostering knowledge-based economy to drive market

10.5.4 KSA

10.5.4.1 Technological advancements and economic diversification through Vision 2030 initiative to accelerate market growth

10.5.5 EGYPT

10.5.5.1 Rapid adoption of advanced technologies to boost market

10.5.6 SOUTH AFRICA

10.5.6.1 Increased focus on cloud-based software products to propel market growth 10.5.7 REST OF MIDDLE EAST & AFRICA

10.6 LATIN AMERICA

10.6.1 LATIN AMERICA: AI CODE TOOLS MARKET DRIVERS

10.6.2 LATIN AMERICA: IMPACT OF RECESSION

TABLE 164 LATIN AMERICA: AI CODE TOOLS MARKET, BY REGION, 2017–2022 (USD MILLION)

TABLE 165 LATIN AMERICA: AI CODE TOOLS MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 166 LATIN AMERICA: AI CODE TOOLS MARKET, BY OFFERING, 2017–2022 (USD MILLION)

TABLE 167 LATIN AMERICA: AI CODE TOOLS MARKET, BY OFFERING, 2023–2028 (USD MILLION)

TABLE 168 LATIN AMERICA: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2017–2022 (USD MILLION)

TABLE 169 LATIN AMERICA: AI CODE TOOLS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

TABLE 170 LATIN AMERICA: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2017–2022 (USD MILLION)



TABLE 171 LATIN AMERICA: AI CODE TOOLS MARKET, BY DEPLOYMENT MODE, 2023–2028 (USD MILLION)

TABLE 172 LATIN AMERICA: AI CODE TOOLS MARKET, BY SERVICE, 2017–2022 (USD MILLION)

TABLE 173 LATIN AMERICA: AI CODE TOOLS MARKET, BY SERVICE, 2023–2028 (USD MILLION)

TABLE 174 LATIN AMERICA: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2017–2022 (USD MILLION)

TABLE 175 LATIN AMERICA: AI CODE TOOLS MARKET, BY PROFESSIONAL SERVICE, 2023–2028 (USD MILLION)

TABLE 176 LATIN AMERICA: AI CODE TOOLS MARKET, BY APPLICATION, 2017–2022 (USD MILLION)

TABLE 177 LATIN AMERICA: AI CODE TOOLS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 178 LATIN AMERICA: AI CODE TOOLS MARKET, BY VERTICAL, 2017–2022 (USD MILLION)

TABLE 179 LATIN AMERICA: AI CODE TOOLS MARKET, BY VERTICAL, 2023–2028 (USD MILLION)

10.6.3 BRAZIL

10.6.3.1 Brazil's vibrant technology ecosystem to drive software development industry

10.6.4 MEXICO

10.6.4.1 Dynamic private sector and increasing investments in digital transformation to accelerate market growth

10.6.5 REST OF LATIN AMERICA

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 STRATEGIES ADOPTED BY KEY PLAYERS

TABLE 180 STRATEGIES DEPLOYED BY KEY AI CODE TOOL VENDORS

11.3 REVENUE ANALYSIS

FIGURE 44 BUSINESS SEGMENT REVENUE ANALYSIS FOR KEY COMPANIES, 2020–2022 (USD MILLION)

11.4 MARKET SHARE ANALYSIS FOR KEY PUBLIC COMPANIES

FIGURE 45 MARKET SHARE ANALYSIS FOR KEY PLAYERS, 2022

TABLE 181 AI CODE TOOLS MARKET: INTENSITY OF COMPETITIVE RIVALRY

11.5 BRAND/PRODUCT COMPARATIVE ANALYSIS

TABLE 182 BRAND/PRODUCT COMPARATIVE ANALYSIS



11.6 COMPANY EVALUATION MATRIX

11.6.1 STARS

11.6.2 EMERGING LEADERS

11.6.3 PERVASIVE PLAYERS

11.6.4 PARTICIPANTS

FIGURE 46 COMPANY EVALUATION MATRIX, 2023

11.6.5 COMPANY FOOTPRINT OF KEY PLAYERS

TABLE 183 COMPANY FOOTPRINT OF KEY PLAYERS, 2023

11.7 STARTUP/SME EVALUATION MATRIX, 2023

11.7.1 PROGRESSIVE COMPANIES

11.7.2 RESPONSIVE COMPANIES

11.7.3 DYNAMIC COMPANIES

11.7.4 STARTING BLOCKS

FIGURE 47 STARTUP/SME EVALUATION MATRIX, 2023

11.7.5 COMPETITIVE BENCHMARKING OF STARTUPS/SMES

TABLE 184 DETAILED LIST OF KEY SMES/STARTUPS

TABLE 185 COMPETITIVE BENCHMARKING OF SMES/STARTUPS, 2023

11.8 COMPETITIVE SCENARIO AND TRENDS

11.8.1 PRODUCT LAUNCHES

TABLE 186 AI CODE TOOLS MARKET: PRODUCT LAUNCHES, 2020-2023

11.8.2 DEALS

TABLE 187 AI CODE TOOLS MARKET: DEALS, 2020-2023

11.8.3 OTHERS

TABLE 188 AI CODE TOOLS MARKET: OTHERS, 2020-2023

11.9 VALUATION AND FINANCIAL METRICS OF KEY VENDORS

FIGURE 48 VALUATION AND FINANCIAL METRICS OF KEY VENDORS

11.10 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY VENDORS

FIGURE 49 YTD PRICE TOTAL RETURN AND STOCK BETA OF KEY VENDORS

12 COMPANY PROFILES

12.1 INTRODUCTION

12.2 KEY PLAYERS

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

12.2.1 MICROSOFT

TABLE 189 MICROSOFT: BUSINESS OVERVIEW FIGURE 50 MICROSOFT: COMPANY SNAPSHOT

TABLE 190 MICROSOFT: PRODUCTS/SOLUTIONS/SERVICES OFFERED



TABLE 191 MICROSOFT: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 192 MICROSOFT: DEALS

12.2.2 IBM

TABLE 193 IBM: BUSINESS OVERVIEW FIGURE 51 IBM: COMPANY SNAPSHOT

TABLE 194 IBM: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 195 IBM: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 196 IBM: DEALS TABLE 197 IBM: OTHERS

12.2.3 GOOGLE

TABLE 198 GOOGLE: BUSINESS OVERVIEW FIGURE 52 GOOGLE: COMPANY SNAPSHOT

TABLE 199 GOOGLE: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 200 GOOGLE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 201 GOOGLE: DEALS TABLE 202 GOOGLE: OTHERS

12.2.4 AWS

TABLE 203 AWS: BUSINESS OVERVIEW FIGURE 53 AWS: COMPANY SNAPSHOT

TABLE 204 AWS: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 205 AWS: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 206 AWS: DEALS TABLE 207 AWS: OTHERS

12.2.5 META

TABLE 208 META: BUSINESS OVERVIEW FIGURE 54 META: COMPANY SNAPSHOT

TABLE 209 META: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 210 META: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 211 META: DEALS 12.2.6 SALESFORCE

TABLE 212 SALESFORCE: BUSINESS OVERVIEW FIGURE 55 SALESFORCE: COMPANY SNAPSHOT

TABLE 213 SALESFORCE: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 214 SALESFORCE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 215 SALESFORCE: DEALS TABLE 216 SALESFORCE: OTHERS

12.2.7 OPENAI

TABLE 217 OPENAI: BUSINESS OVERVIEW

TABLE 218 OPENAI: PRODUCTS/SOLUTIONS/SERVICES OFFERED



TABLE 219 OPENAI: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 220 OPENAI: DEALS TABLE 221 OPENAI: OTHERS

12.2.8 TABNINE

TABLE 222 TABNINE: BUSINESS OVERVIEW

TABLE 223 TABNINE: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 224 TABNINE: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 225 TABNINE: DEALS

12.2.9 REPLIT

TABLE 226 REPLIT: BUSINESS OVERVIEW

TABLE 227 REPLIT: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 228 REPLIT: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 229 REPLIT: DEALS
TABLE 230 REPLIT: OTHERS
12.2.10 SOURCEGRAPH

TABLE 231 SOURCEGRAPH: BUSINESS OVERVIEW

TABLE 232 SOURCEGRAPH: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 233 SOURCEGRAPH: PRODUCT LAUNCHES AND ENHANCEMENTS

12.2.11 MOOLYA

TABLE 234 MOOLYA: BUSINESS OVERVIEW

TABLE 235 MOOLYA: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 236 MOOLYA: PRODUCT LAUNCHES AND ENHANCEMENTS

12.2.12 SNYK

TABLE 237 SNYK: BUSINESS OVERVIEW

TABLE 238 SNYK: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 239 SNYK: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 240 SNYK: DEALS TABLE 241 SNYK: OTHERS

12.2.13 CIRCLECI

TABLE 242 CIRCLECI: BUSINESS OVERVIEW

TABLE 243 CIRCLECI: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 244 CIRCLECI: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 245 CIRCLECI: DEALS

12.2.14 JETBRAINS

TABLE 246 JETBRAINS: BUSINESS OVERVIEW

TABLE 247 JETBRAINS: PRODUCTS/SOLUTIONS/SERVICES OFFERED TABLE 248 JETBRAINS: PRODUCT LAUNCHES AND ENHANCEMENTS

TABLE 249 JETBRAINS: DEALS

12.2.15 ADACORE



- 12.2.16 WINGWARE
- 12.2.17 DATADOG
- 12.2.18 LIGHTNING AI
- 12.2.19 KODEZI
- **12.2.20 SOURCERY**
- 12.3 STARTUPS/SMES
 - 12.3.1 CODEWP
 - 12.3.2 SQLAI.AI
 - 12.3.3 SINCODE AB
 - 12.3.4 SEEK AI
 - 12.3.5 ENZYME
- 12.3.6 ASSISTIV AI
- 12.3.7 CODIUM
- 12.3.8 MUTABLE AI
- 12.3.9 JUDINI
- 12.3.10 SAFURAI
- *Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

13 ADJACENT AND RELATED MARKETS

- 13.1 INTRODUCTION
- 13.2 LOW-CODE DEVELOPMENT PLATFORM MARKET GLOBAL FORECAST TO 2025
 - 13.2.1 MARKET DEFINITION
 - 13.2.2 MARKET OVERVIEW
- FIGURE 56 LOW-CODE DEVELOPMENT PLATFORM MARKET SNAPSHOT, 2018–2025
- 13.2.3 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY COMPONENT TABLE 250 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY COMPONENT, 2018–2025 (USD MILLION)
- 13.2.4 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY APPLICATION TABLE 251 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY APPLICATION TYPE, 2018–2025 (USD MILLION)
- 13.2.5 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY DEPLOYMENT TYPE
- TABLE 252 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY DEPLOYMENT TYPE, 2018–2025 (USD MILLION)
 - 13.2.6 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY ORGANIZATION



SIZE

TABLE 253 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY ORGANIZATION SIZE, 2018–2025 (USD MILLION)

13.2.7 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY INDUSTRY TABLE 254 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY INDUSTRY, 2018–2025 (USD MILLION)

13.2.8 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY REGION TABLE 255 LOW-CODE DEVELOPMENT PLATFORM MARKET, BY REGION, 2018–2025 (USD MILLION)

13.3 GENERATIVE AI MARKET - GLOBAL FORECAST TO 2030

13.3.1 MARKET DEFINITION

13.3.2 MARKET OVERVIEW

TABLE 256 GLOBAL GENERATIVE AI MARKET SIZE AND GROWTH RATE, 2019–2022 (USD MILLION, Y-O-Y %)

TABLE 257 GLOBAL GENERATIVE AI MARKET SIZE AND GROWTH RATE, 2023–2030 (USD MILLION, Y-O-Y %)

13.3.3 GENERATIVE AI MARKET, BY OFFERING

TABLE 258 GENERATIVE AI MARKET, BY OFFERING, 2019–2022 (USD MILLION) TABLE 259 GENERATIVE AI MARKET, BY OFFERING, 2023–2030 (USD MILLION) 13.3.4 GENERATIVE AI MARKET, BY REGION

TABLE 260 NORTH AMERICA: GENERATIVE AI MARKET, BY OFFERING, 2019–2022 (USD MILLION)

TABLE 261 NORTH AMERICA: GENERATIVE AI MARKET, BY OFFERING, 2023–2030 (USD MILLION)

14 APPENDIX

- 14.1 DISCUSSION GUIDE
- 14.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL
- 14.3 CUSTOMIZATION OPTIONS
- 14.4 RELATED REPORTS
- 14.5 AUTHOR DETAILS



I would like to order

Product name: AI Code Tools Market by Offering (Tools (Technology (ML, NLP, Generative AI),

Deployment Mode) and Services), Application (Data Science & Machine Learning, Cloud Services & DevOps, Web Development), Vertical and Region - Global Forecast to 2028

Product link: https://marketpublishers.com/r/A1DCF85D3769EN.html

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A1DCF85D3769EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

| First name: | |
|---------------|---------------------------|
| Last name: | |
| Email: | |
| Company: | |
| Address: | |
| City: | |
| Zip code: | |
| Country: | |
| Tel: | |
| Fax: | |
| Your message: | |
| | |
| | |
| | |
| | **All fields are required |
| | Custumer signature |
| | |
| | |

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below



and fax the completed form to +44 20 7900 3970