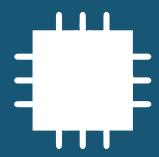


SEMICONDUCTOR & ELECTRONICS



ARTIFICIAL INTELLIGENCE MARKET

GLOBAL FORECAST TO 2020

ARTIFICIAL INTELLIGENCE MARKET - GLOBAL FORECAST TO 2020

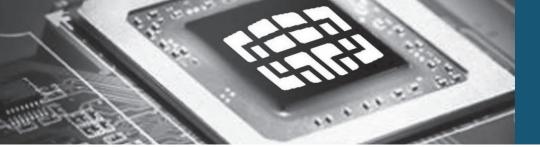
By Technology (Machine Learning, Natural Language Processing, Image Processing, and Speech Recognition), Application (Advertising & Media, Finance, RETAIL, and Others), & Geography



REPORT OVERVIEW

1.1 **OBJECTIVES OF THE STUDY**

- To define and measure the artificial intelligence market with respect to technology, hardware & services, applications, and geography
- To analyze the market structure by identifying various sub segments of the artificial intelligence market
- To project the size of the artificial intelligence market in terms of value and its submarkets with respect to four main regions: North America, Europe, Asia-Pacific (APAC), and Rest of the World (RoW)
- To identify the major market trends and factors driving or inhibiting the growth of the artificial intelligence market and its submarkets
- To analyze the market with the help of the Porter's five forces framework along with the value chain analysis of the artificial intelligence market
- To strategically analyze each submarket with respect to the individual growth trends and contribution to the overall artificial intelligence market
- To analyze the opportunities in the market for stakeholders by identifying highgrowth segments of the artificial intelligence market
- To strategically profile key players in the artificial intelligence market and comprehensively analyze their market rank and core competencies1 in each segment
- To track and analyze strategic developments such as new product developments, alliances, joint ventures, and mergers and acquisitions in the global artificial intelligence market





INTRODUCTION

MARKET DEFINITION 1.2

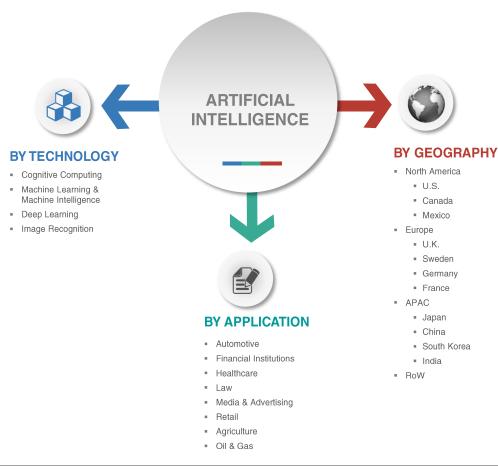
Artificial Intelligence (AI) is the theory and development of computer systems capable of performing tasks that require human intelligence. Al includes the study and synthesis of intelligent agents. The system perceives its environment and takes action to maximize its chance of success. The artificial intelligence technology is extensively used across media & advertising, finance, retail, healthcare, oil & gas, law, and automotive & transportation among few others.

This report covers several AI technologies as machine learning, cognitive computing, deep learning, and image recognition among others.

1.3 MARKET SCOPE

The report classifies the artificial intelligence market based on technology type, hardware & service, application, and geography. It entails the analyses and forecasts related to the artificial intelligence market.

1.3.1 MARKETS COVERED



Source: Experts' Interviews, Company Websites, Secondary Literature, and MarketsandMarkets Analysis





INTRODUCTION

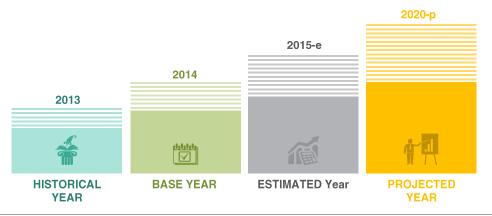
1.3.2 YEARS CONSIDERED FOR THE STUDY

Historical Year: 2013

Base Year: 2014

Forecast Years: 2015–2020

• The base year used in the company profile is 2014. Where the information was not available for the base year, the prior year has been considered.



Source: MarketsandMarkets Analysis

1.4 CURRENCY

The currency used in the report is U.S. dollars, with market size indicated only in million USD.

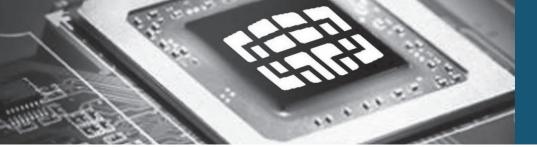
- For companies that reported their revenue in the U.S. dollars, respective annual reports were referred to for the required financial data.
- For companies that reported their revenue in other currencies, the average annual currency rate has been used for that particular year to convert the value into U.S. dollars.

1.5 LIMITATIONS

- The organizations involved in the design of artificial intelligence (AI) systems have only been considered in the report
- Al applications in the field of robotics, government projects, infrastructure are not considered

1.6 STAKEHOLDERS

- End users of artificial intelligence
- Artificial intelligence solutions providers
- Technology providers
- Research organizations and consulting companies
- Associations, organizations, forums, and alliances related to artificial intelligence
- Venture capitalists, private equity firms, and startup companies

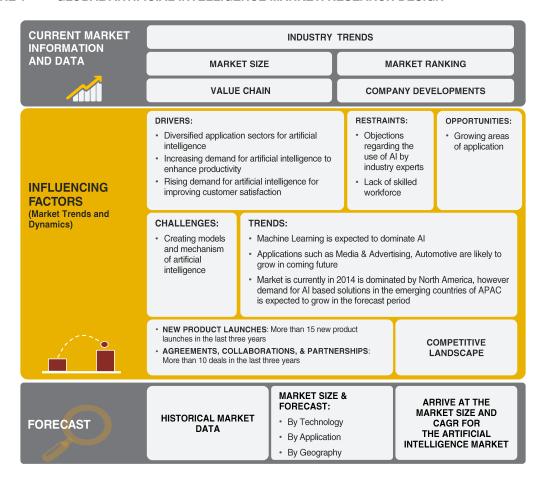




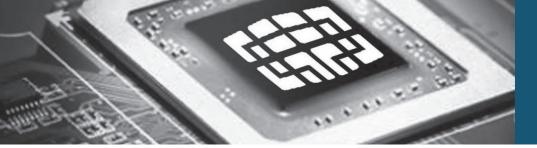
2.1 RESEARCH DATA

This research study incorporates the usage of extensive secondary sources, directories, and databases such as Factiva, BusinessWeek, OneSource, and Hoovers to identify and collect information useful for the extensive technical and commercial study of the artificial intelligence (AI) market. The primary sources such as experts from core and related industries, preferred suppliers, and service providers have been interviewed to obtain and verify the critical qualitative and quantitative information as well as assess future prospects. Key players in the artificial intelligence market have been identified through the secondary research and their revenue has been determined through primary and secondary research. The research also includes the study of annual reports of top players and interviews with key opinion leaders such as CEOs, directors, and marketing personnel among others. The following illustrative figure shows the research methodology applied in making this report on the global artificial intelligence market.

FIGURE 1 GLOBAL ARTIFICIAL INTELLIGENCE MARKET: RESEARCH DESIGN



In the secondary research process, various secondary sources have been referred to for identifying and collecting information important for this study. The secondary sources include annual reports, press releases and investor presentations of companies, white papers, certified publications, articles from recognized authors, directories, and databases.





The secondary research has mainly been carried out to obtain key information about the industry's supply chain, the market's value chain, the total pool of key players, and market segmentation according to the industry trends, geographic markets, and key developments from both market- and technology-oriented perspectives.

In the primary research process, various primary sources from both supply and demand sides have been interviewed to obtain the qualitative and quantitative information important for this report. The primary sources from the supply side include industry experts such as CEOs, vice presidents, marketing directors, technology and innovation directors, and related key executives from major companies and organizations operating in the artificial intelligence market.

After the complete market engineering (which includes calculations for market statistics, market breakdown, Data triangulation, market size estimation and market forecasting), an extensive primary research has been conducted to gather information and verify and validate the critical numbers arrived at.

A primary research has also been conducted to identify the segmentation types, industry trends, and key players, as well as to analyze the competitive landscape; key market dynamics such as drivers, restraints, opportunities, industry trends, and key player strategies; Porter's five forces. In the complete market engineering process, both top-down and bottom-up approaches have been extensively used along with several data triangulation methods to estimate and forecast the size of all the market segments and subsegments listed in this report. An extensive qualitative and quantitative analysis has been performed on the complete market engineering process to obtain the key information/insights given in the report.

2.1.1 SECONDARY DATA

Secondary sources referred to for this study include government sources; corporate filings (such as annual reports, investor presentations, and financial statements); and trade, business, and professional associations among others. The secondary data has been collected and analyzed to arrive at the overall market size, which has further been validated through primary research.

2.1.1.1 KEY DATA FROM SECONDARY SOURCES

PARAMETER SOURCE Company Financials Magazines **MARKET SIZE** Journals Press Releases (Value) Paid Databases The MarketsandMarkets Data Repository **Annual Reports** Company Website **COMPANY REVENUE** Public Databases The MarketsandMarkets Data Repository Company Website **QUALITATIVE INFORMATION Annual Reports** (Market Dynamics, Press Releases Market Trends) The MarketsandMarkets Data Repository





2.1.2 PRIMARY DATA

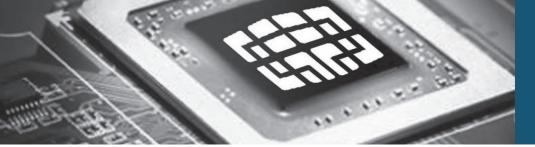
An extensive primary research has been conducted after acquiring knowledge about the global artificial intelligence market scenario through the secondary research. Several primary interviews with market experts from both demand side (artificial intelligence system manufacturers) and supply side (artificial intelligence system providers and distributors) have been conducted across four major regions: North America, Europe, APAC, and RoW (Latin America, the Middle East, and Africa). This primary data has been collected through questionnaires, mails, and telephonic interviews.

2.1.2.1 KEY DATA FROM PRIMARY SOURCES

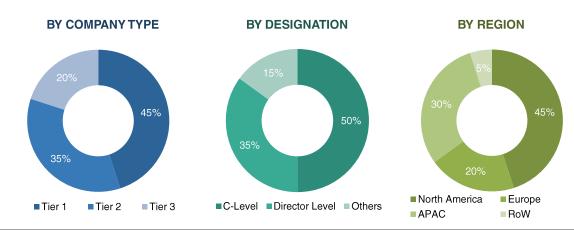
ТҮРЕ	PARAMETERS	KEY DATA POINTS
GEOGRAPHIC SPLIT	 Overall market and sub-segments in 2014 CAGR of each region during the forecast period (2015 – 2020) 	The global artificial intelligence market, by geography – North America, Europe, APAC, and RoW
GLOBAL MARKET SIZE	 The global market size in 2014 CAGR for the forecast period (2015–2020) 	The global artificial intelligence market The artificial intelligence market, by sub-segment
MARKET SPLIT	TechnologyApplicationGeography	 Artificial intelligence market, by Technology Artificial intelligence market, by Application Artificial intelligence market, by Geography

2.1.2.2 KEY INDUSTRY INSIGHTS





2.1.2.3 BREAKDOWN OF PRIMARIES



Note: *Others include sales managers, marketing managers, and product managers. Tier1: >USD 1 Billion; Tier 2: USD 0.5 Billion – USD 1.0 Billion; Tier 3: <USD 0.5 Billion

2.2 MARKET SIZE ESTIMATION

Both top-down and bottom-up approaches have been used to estimate and validate the size of the global market and various other dependent submarkets in the overall artificial intelligence market. The key players in the market have been identified through secondary research and their market shares in the respective regions have been determined through primary and secondary research. This entire procedure includes the study of annual and financial reports of the top market players as well as interviews with industry experts such as CEOs, vice presidents, directors, and marketing executives for key insights, both quantitative and qualitative. All percentage shares and breakdowns have been determined using secondary sources and verified through primary sources. All the possible parameters that affect the markets covered in this research study have been accounted for, viewed in detail, verified through primary research, and analyzed to obtain the final quantitative and qualitative data. This data has been consolidated and supplemented with detailed inputs and analysis from MarketsandMarkets and presented in this report.

The following figure shows an illustrative representation of the overall market size estimation process employed for the purpose of this study.

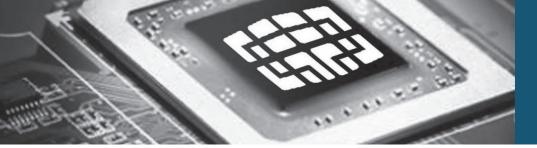
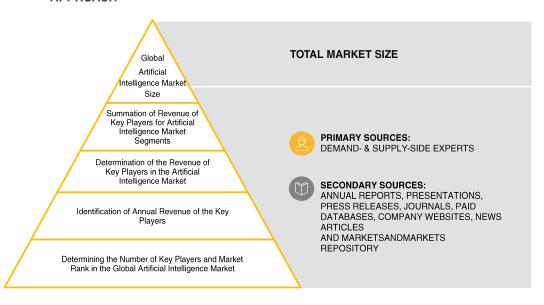
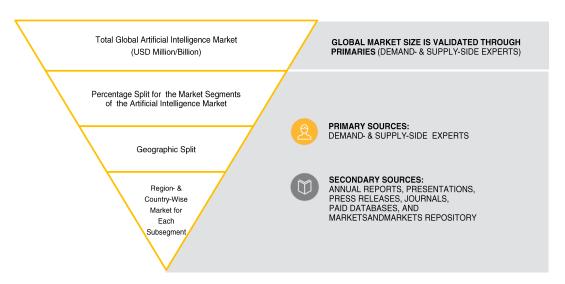




FIGURE 2 ARTIFICIAL INTELLIGENCE MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP **APPROACH**

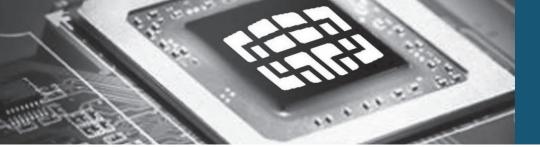


ARTIFICIAL INTELLIGENCE MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN FIGURE 3 **APPROACH**



The bottom-up approach has been deployed to arrive at the overall size of the global artificial intelligence market from the revenue of the key players and their shares in the market. The overall market size has been calculated based on the revenues of key players identified in the market.

In the top-down approach, the overall market size has been used to estimate the size of the individual markets (mentioned in the market segmentation) through percentage splits from secondary and primary research. For the calculation of the specific market segments, the most appropriate immediate parent market size has been used to implement the top-down approach. The bottom-up approach has also been implemented for the data



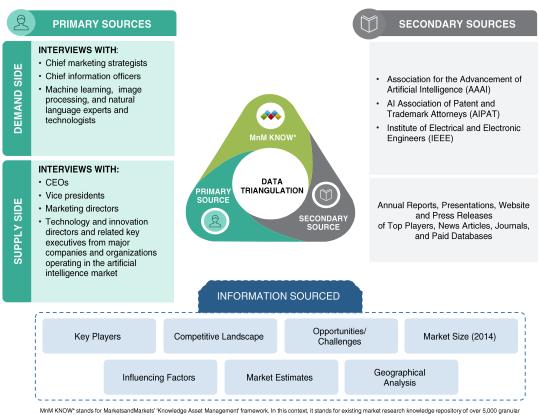


obtained from the secondary research to validate the market size obtained. The market share of each company has been estimated to verify the revenue share used earlier in the bottom-up approach. With the data triangulation procedure and validation of data through primaries, the overall parent market size and each individual market size have been determined and confirmed in this study. The data triangulation procedure used for this study is explained in the next section.

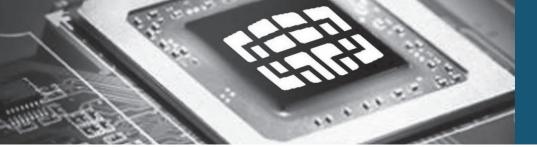
2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

After arriving at the overall market size from the market size estimation process explained above, the total market has been split into several segments and subsegments. To complete the overall market engineering process and arrive at the exact statistics for all segments and subsegments, market breakdown and data triangulation procedures have been employed wherever applicable. The data has been triangulated by studying various factors and trends from both the demand and supply sides. Along with this, the market has been validated using both top-down and bottom-up approaches.

FIGURE 4 **DATA TRIANGULATION**



MnM KNOW* stands for MarketsandMarkets* "Knowledge Asset Management" framework. In this context, it stands for existing market research knowledge repository of over 5,000 granular markets, our flagship competitive intelligence and market research platform "FIT", subject matter expents, and independent consultants. MnM KNOW acts as an independent source that helps us validated information gathered from primary and secondary sources.

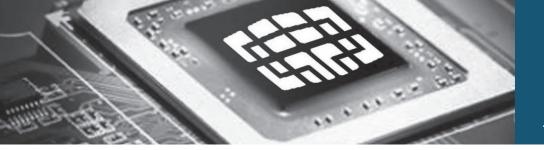




2.4 **ASSUMPTIONS**

PARAMETERS	ASSUMPTIONS
Exchange Rates and Currency Conversion	For the conversion of various currencies to the USD, the average historical exchange rates have been used according to the year specified. For all the historical and current exchanged rates required for calculations and currency conversions, the OANDA website has been considered.
Global Economic Downturns	The global economy has a direct impact on any market. Regarding the global economy landscape, no macroeconomic collapses have been considered while forecasting the market size in this research study.
Qualitative Analysis	All the qualitative analysis done from the quantitative data is based on the understanding of the market and its trends by the team of experts involved in making this report.
Market Size	The market size of each segment has been estimated based on the market understanding and expert interviews.
Market Rank Analysis, by Key Player	The base year considered for market rank analysis, by key player, is 2014.

Note: The market values have been rounded off to the second decimal. Due to this, there may be a slight difference between the actual total and the total mentioned in the table.



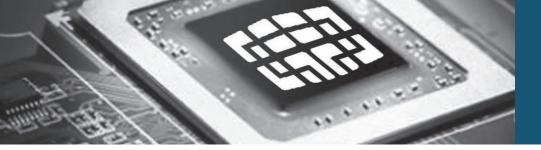


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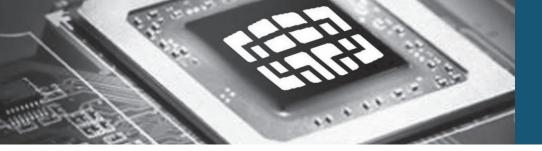


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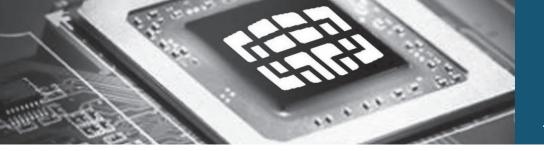
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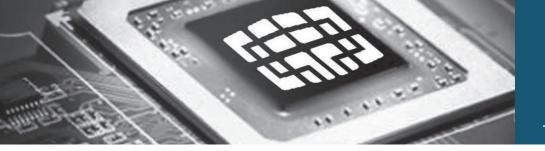
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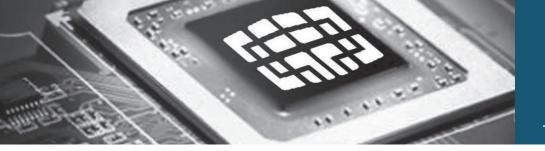
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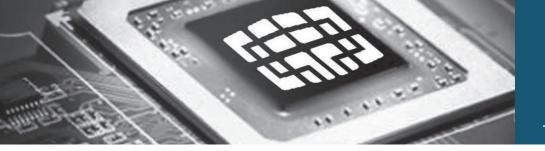
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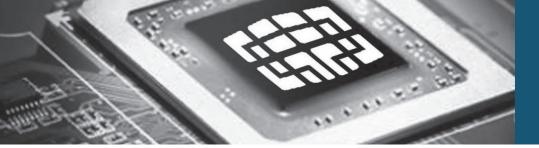
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TABLE 1 ARTIFICIAL INTELLIGENCE MARKET SIZE, BY GEOGRAPHY, 2013–2020 (USD MILLION)

REGION	2013	2014	2015	2016	2018	2020	CAGR (2015-2020)
North America	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Europe	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
APAC	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
RoW	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
TOTAL	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X %

Source: Secondary Literature, Experts' Interviews, and MarketsandMarkets Analysis

TABLE 2 APAC: ARTIFICIAL INTELLIGENCE MARKET SIZE, BY TECHNOLOGY, 2013–2020 (USD MILLION)

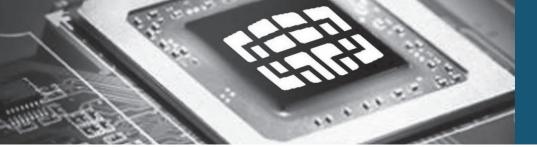
TECHNOLOGY	2013	2014	2015	2016	2018	2020	CAGR (2015-2020)
Machine Learning	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Natural Language Processing	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Image Processing	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Speech Recognition	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
TOTAL	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X %

Source: Secondary Literature, Experts' Interviews, and MarketsandMarkets Analysis

TABLE 3 EUROPE: ARTIFICIAL INTELLIGENCE MARKET SIZE, BY COUNTRY, 2013–2020 (USD MILLION)

COUNTRY	2013	2014	2015	2016	2018	2020	CAGR (2015-2020)
U.K.	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Sweden	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Germany	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
France	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
Others	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X%
TOTAL	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X	XX.X %

Source: Secondary Literature, Experts' Interviews, and MarketsandMarkets Analysis



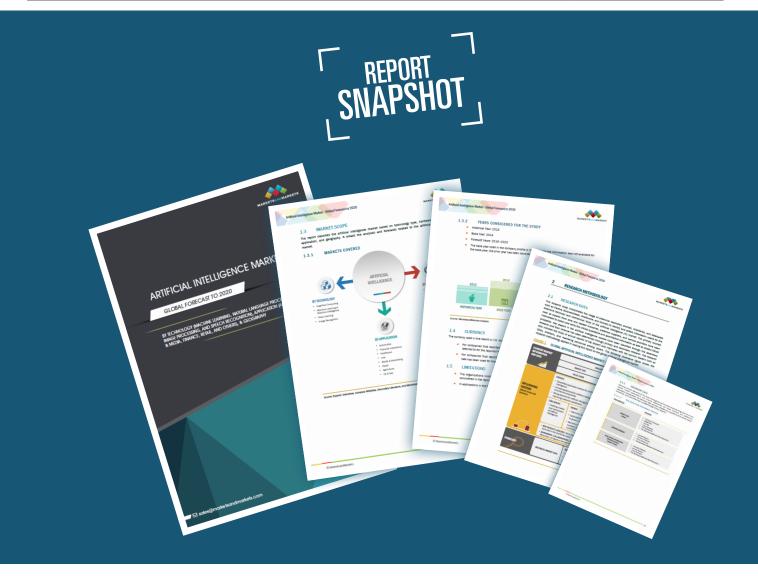


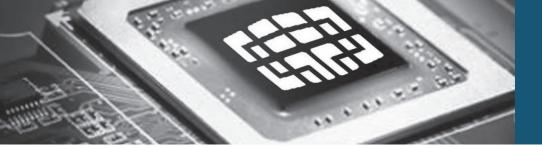
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