

Artificial Intelligence (AI) in Food & Beverages Market by Application (Food Sorting, Quality Control and Safety Compliance, Consumer Engagement, Production and Packaging, Maintenance, and Others), End Use (Food Processing Industry, Hotel and Restaurant, Beverage Industry), and Region 2023-2028

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Abstracts

The global artificial intelligence (AI) in food & beverages market size reached US\$ 5.27 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 43.9 Billion by 2028, exhibiting a growth rate (CAGR) of 39.6% during 2023-2028. The significant improvements in the food and beverage (F&B) infrastructure, the increasing need to improve supply chain operational efficiency and the widespread adoption of automated services are some factors driving the market growth.

Artificial intelligence (AI) represents a branch of computer science concerned with the simulation of human intelligence in programmed robotic machines to make them capable of performing various industrial operations, which usually require human intervention. It is currently employed in the food and beverage (F&B) sector to execute quality control, meal transportation, consumer engagement, industrial standard compliance, product and packaging, and food sorting applications. These services help maintain excellent hygiene standards, ensure the optimal quality of several drinks and food products, retain their nutritional value, detect microorganisms, and reduce wastage by ensuring timely delivery and minimizing overproduction. Apart from this, it optimizes workflow, reduces workload from workers, allows innovation of new products based on consumer recommendations, and enhances purchasing experience. As a result, AI in food and beverage units is extensively used for logistics, preventing human errors, and making better business-related decisions.

Artificial Intelligence (AI) in Food & Beverages Market Trends:

The significant improvements in the food and beverage (F&B) infrastructure represent a prime factor driving the market growth. This is further supported by the increasing need to improve supply chain operational efficiency and the widespread adoption of automated services to sort diverse food and beverage products. Additionally, the rapid expansion in the hotels, restaurants, and catering (HoReCa) sector and the recent establishment of quick service restaurants (QSRs) have facilitated the demand for AI in food beverage units, which is acting as another growth-inducing factor. These solutions help predict sales, analyze, monitor, and deduce customer behavior, and gain valuable consumer insights to make more targeted efforts, create personal level connections through deeper interactions and improve the overall customer experience. Furthermore, the extensive uptake of AI in food beverage to forecast inventory levels to decrease wood wastage, monitor product quantities, detect production cycle time and minimize machine downtime at reduced operational expenses is supporting the market growth. In line with this, the significant technological advancements in terms of food production procedures and the integration of machine learning (ML) solutions are propelling the market growth. They are widely deployed to deduce end goals, refine market strategies, and record every detail from quotations to reduce warehousing costs. Apart from this, the continuous modernization and strategic collaborations amongst key players are positively impacting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global artificial intelligence (AI) in food & beverages market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on application and end use.

Application Insights:

- Food Sorting
- Quality Control and Safety Compliance
- Consumer Engagement
- Production and Packaging
- Maintenance
- Others

The report has also provided a detailed breakup and analysis of artificial intelligence (AI) in food & beverages market based on the application. This includes food sorting,

quality control and safety compliance, consumer engagement, production and packaging, maintenance, and others. According to the report, consumer engagement represented the largest segment.

End Use Insights:

Food Processing Industry

Hotel and Restaurant

Beverage Industry

A detailed breakup and analysis of the artificial intelligence (AI) in food & beverages market based on the end use has also been provided in the report. This includes food processing industry, hotel and restaurants, and beverage industry. According to the report, food processing industry accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for artificial intelligence (AI) in food & beverages. Some of the factors driving the North America artificial intelligence (AI) in food & beverages included extensive research and development (R&D) activities, significant technological advancements, and rapid expansion in the food and beverage (F&B) sector.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global artificial intelligence (AI) in food & beverages market. Detailed profiles of all major companies have also been provided. Some of the companies covered include ABB Ltd., Sesotec GmbH, Siemens AG, Sight Machine, TOMRA System ASA, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global artificial intelligence (AI) in the food beverages market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global artificial intelligence (AI) in food & beverages market?

What are the key regional markets?

Which countries represent the most attractive artificial intelligence (AI) in food & beverages markets?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end use?

What is the competitive structure of the global artificial intelligence (AI) in food & beverages market?

Who are the key players/companies in the global artificial intelligence (AI) in food & beverages market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ARTIFICIAL INTELLIGENCE (AI) IN FOOD & BEVERAGES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY APPLICATION

- 6.1 Food Sorting
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Quality Control and Safety Compliance
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Consumer Engagement

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Production and Packaging
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Maintenance
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast
- 6.6 Others
 - 6.6.1 Market Trends
 - 6.6.2 Market Forecast

7 MARKET BREAKUP BY END USE

- 7.1 Food Processing Industry
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Hotel and Restaurant
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Beverage Industry
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
- 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends
 - 8.2.1.2 Market Forecast
 - 8.2.2 Japan
 - 8.2.2.1 Market Trends

- 8.2.2.2 Market Forecast
- 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
 - 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

9.1 Overview

9.2 Drivers

9.3 Restraints

9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 ABB Ltd.

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.1.3 Financials

13.3.1.4 SWOT Analysis

13.3.2 Sesotec GmbH

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.3 Siemens AG

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.3.3 Financials

13.3.3.4 SWOT Analysis

13.3.4 Sight Machine

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.5 TOMRA System ASA

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.5.3 Financials

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

List Of Tables

LIST OF TABLES

Table 1: Global: Artificial Intelligence in Food & Beverages Market: Key Industry Highlights, 2022 & 2028

Table 2: Global: Artificial Intelligence in Food & Beverages Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 3: Global: Artificial Intelligence in Food & Beverages Market Forecast: Breakup by End Use (in Million US\$), 2023-2028

Table 4: Global: Artificial Intelligence in Food & Beverages Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Artificial Intelligence in Food & Beverages Market: Competitive Structure

Table 6: Global: Artificial Intelligence in Food & Beverages Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Artificial Intelligence in Food & Beverages Market: Major Drivers and Challenges

Figure 2: Global: Artificial Intelligence in Food & Beverages Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Artificial Intelligence in Food & Beverages Market: Breakup by Application (in %), 2022

Figure 5: Global: Artificial Intelligence in Food & Beverages Market: Breakup by End Use (in %), 2022

Figure 6: Global: Artificial Intelligence in Food & Beverages Market: Breakup by Region (in %), 2022

Figure 7: Global: Artificial Intelligence in Food & Beverages (Food Sorting) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 8: Global: Artificial Intelligence in Food & Beverages (Food Sorting) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 9: Global: Artificial Intelligence in Food & Beverages (Quality Control and Safety Compliance) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: Artificial Intelligence in Food & Beverages (Quality Control and Safety Compliance) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: Artificial Intelligence in Food & Beverages (Consumer Engagement) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Artificial Intelligence in Food & Beverages (Consumer Engagement) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Artificial Intelligence in Food & Beverages (Production and Packaging) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Artificial Intelligence in Food & Beverages (Production and Packaging) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Artificial Intelligence in Food & Beverages (Maintenance) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Artificial Intelligence in Food & Beverages (Maintenance) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Artificial Intelligence in Food & Beverages (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Artificial Intelligence in Food & Beverages (Other Applications)

Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Artificial Intelligence in Food & Beverages (Food Processing Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Artificial Intelligence in Food & Beverages (Food Processing Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Artificial Intelligence in Food & Beverages (Hotel and Restaurant) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Artificial Intelligence in Food & Beverages (Hotel and Restaurant) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: Artificial Intelligence in Food & Beverages (Beverage Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: Artificial Intelligence in Food & Beverages (Beverage Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: North America: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: North America: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: United States: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: United States: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Canada: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Canada: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Asia-Pacific: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Asia-Pacific: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: China: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: China: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Japan: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Japan: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: India: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: India: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: South Korea: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: South Korea: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Australia: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Australia: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Indonesia: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Indonesia: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Others: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Others: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Europe: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: Europe: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Germany: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: Germany: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: France: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: France: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: United Kingdom: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: United Kingdom: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Italy: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Italy: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Spain: Artificial Intelligence in Food & Beverages Market: Sales Value (in

Million US\$), 2017 & 2022

Figure 58: Spain: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Russia: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Russia: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Others: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: Others: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Latin America: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: Latin America: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Brazil: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Brazil: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Mexico: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Mexico: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Others: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Others: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Middle East and Africa: Artificial Intelligence in Food & Beverages Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Middle East and Africa: Artificial Intelligence in Food & Beverages Market: Breakup by Country (in %), 2022

Figure 73: Middle East and Africa: Artificial Intelligence in Food & Beverages Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Global: Artificial Intelligence in Food & Beverages Industry: Drivers, Restraints, and Opportunities

Figure 75: Global: Artificial Intelligence in Food & Beverages Industry: Value Chain Analysis

Figure 76: Global: Artificial Intelligence in Food & Beverages Industry: Porter's Five Forces Analysis

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