

Global Artificial Intelligence in Medical Imaging Market: Size, Trends & Forecast with Impact of COVID-19 (2022-2026)

<https://marketpublishers.com/r/G619413A1F90EN.html>

Date: January 2022

Pages: 83

Price: US\$ 850.00 (Single User License)

ID: G619413A1F90EN

Abstracts

The report titled “Global Artificial Intelligence in Medical Imaging Market: Size, Trends & Forecast with Impact of COVID-19 (2022-2026)”, provides an in-depth analysis of the global artificial intelligence in medical imaging market by value, by image acquisition technology, by AI technology, by clinical application, by end-user, and by region etc. The report provides a regional analysis of the AI in medical imaging market, including the following regions: North America, Europe, Asia Pacific (China and Rest of Asia Pacific), and Rest of World. The report also provides a detailed analysis of the COVID-19 impact on the global AI in medical imaging market.

The report also assesses the key opportunities in the market and outlines the factors that are and will be driving the growth of the industry. Growth of the overall AI in medical imaging market has also been forecasted for the period 2022-2026, taking into consideration the previous growth patterns, the growth drivers, and the current and future trends.

The global AI in medical imaging market is fragmented. The key players of the global AI in medical imaging market are IBM (IBM Watson Health), Butterfly Network, Inc., Gauss Surgical, Inc., and Arterys are also profiled with their financial information and respective business strategies.

Company Coverage

IBM (IBM Watson Health)

Butterfly Network, Inc.

Gauss Surgical, Inc.

Arterys

Regional Coverage

North America

Europe

Asia Pacific

Rest of the World

Executive Summary

Artificial intelligence (AI) is a branch of computer science that aims to emulate human intelligence through intelligent systems such as image analysis and speech recognition. Medical imaging is the technique and process of imaging the interior of a body for clinical analysis and medical intervention, as well as visual representation of the function of some organs or tissues. AI methods excel at automatically recognizing complex patterns in imaging data and providing quantitative, rather than qualitative, assessments of radiographic characteristics.

The global artificial intelligence in medical imaging market can be segmented based on image acquisition technology (X-Ray, CT, MRI, Ultrasound Imaging, and Molecular Imaging); AI technology (Deep Learning and Other AI & Computer Vision); clinical application (Cardiology, Neurology, Breast, Pulmonology, Liver, and Rest of the Body); and end-user (Medical Institutions and Consumer Healthcare Environment).

COVID-19 has a positive effect on market growth. Attempts have also been made to identify various imaging features of chest CT, resulting in increased popularity for AI in the medical imaging market amid the pandemic. However, with COVID-19 cases on the rise across the world, emerging AI technologies are developed to support hospitals in scaling treatment in the second wave. It also highlights the significance of expanding the use of AI and machine learning in imaging, with the dual goals of improving

diagnoses and improving clinician well-being and job security.

The global AI in medical imaging market has increased during the years 2019-2021. The projections are made that the market would rise in the next four years i.e. 2022-2026 tremendously. The global AI in medical imaging market is expected to increase due to the increasing burden of chronic diseases, increasing health spending, increasing funding in AI, increasing government expenditure and policy support, etc. Yet the market faces some challenges such as development hurdles, the black-box nature of AI, etc. Moreover, the market growth would succeed by various market trends like increasing diversity in training datasets, detecting multiple diseases from a single image, high image resolution to maximize algorithm performance, etc.

Contents

1. EXECUTIVE SUMMARY

2. INTRODUCTION

2.1 Artificial Intelligence in Medical Imaging: An Overview

2.1.1 Introduction to Artificial Intelligence

2.1.2 Introduction to Medical Imaging

2.1.3 Artificial Intelligence in Medical Imaging

2.1.4 Pros and Cons of AI in Medical Imaging

2.1.5 Uses of AI in Medical Imaging

2.1.6 AI Areas of Impact for Medical Imaging Practices

2.2 Artificial Intelligence in Medical Imaging Segmentation: An Overview

2.2.1 Artificial Intelligence in Medical Imaging Segmentation

3. GLOBAL MARKET ANALYSIS

3.1 Global Artificial Intelligence in Medical Imaging Market: An Analysis

3.1.1 Global Artificial Intelligence in Medical Imaging Market by Value

3.1.2 Global Artificial Intelligence in Medical Imaging Market by Image Acquisition Technology (X-Ray, Computed Tomography, Magnetic Resonance Imaging, Ultrasound, and Molecular Imaging)

3.1.3 Global Artificial Intelligence in Medical Imaging Market by AI Technology (Deep Learning and Other AI & Computer Vision)

3.1.4 Global Artificial Intelligence in Medical Imaging Market by Clinical Application (Cardiology, Neurology, Breast, Pulmonology, Liver, and Rest of Body)

3.1.5 Global Artificial Intelligence in Medical Imaging Market by Region (North America, Europe, Asia Pacific, and Rest of the World)

3.2 Global Artificial Intelligence in Medical Imaging Market: Image Acquisition Technology Analysis

3.2.1 Global Artificial Intelligence in X-Ray Medical Imaging Market by Value

3.2.2 Global Artificial Intelligence in Computed Tomography (CT) Medical Imaging Market by Value

3.2.3 Global Artificial Intelligence in Magnetic Resonance Imaging (MRI) Market by Value

3.2.4 Global Artificial Intelligence in Ultrasound Medical Imaging Market by Value

3.2.5 Global Artificial Intelligence in Molecular Medical Imaging Market by Value

3.3 Global Artificial Intelligence in Medical Imaging Market: AI Technology Analysis

- 3.3.1 Global Deep Learning Artificial Intelligence in Medical Imaging Market by Value
- 3.3.2 Global Other AI and Computer Vision in Medical Imaging Market by Value
- 3.4 Global Artificial Intelligence in Medical Imaging Market: Clinical Application Analysis
 - 3.4.1 Global Artificial Intelligence in Cardiology Imaging Market by Value
 - 3.4.2 Global Artificial Intelligence in Neurology Imaging Market by Value
 - 3.4.3 Global Artificial Intelligence in Breast Imaging Market by Value
 - 3.4.4 Global Artificial Intelligence in Pulmonology Imaging Market by Value
 - 3.4.5 Global Artificial Intelligence in Liver Imaging Market by Value
 - 3.4.6 Global Artificial Intelligence in Rest of Body Imaging Market by Value

4. REGIONAL MARKET ANALYSIS

- 4.1 North America Artificial Intelligence in Medical Imaging Market: An Analysis
 - 4.1.1 North America Artificial Intelligence in Medical Imaging Market by Value
- 4.2 Europe Artificial Intelligence in Medical Imaging Market: An Analysis
 - 4.2.1 Europe Artificial Intelligence in Medical Imaging Market by Value
- 4.3 Asia Pacific Artificial Intelligence in Medical Imaging Market: An Analysis
 - 4.3.1 Asia Pacific Artificial Intelligence in Medical Imaging Market by Value
 - 4.3.2 Asia Pacific Artificial Intelligence in Medical Imaging Market by Region (China and Rest of Asia Pacific)
 - 4.3.3 China Artificial Intelligence in Medical Imaging Market by Value
 - 4.3.4 China Artificial Intelligence in Medical Imaging Market by End-User (Medical Institutions and Consumer Healthcare Environment)
 - 4.3.5 China Artificial Intelligence in Medical Institutions Imaging Market by Value
 - 4.3.6 China Artificial Intelligence in Consumer Healthcare Environment Medical Imaging Market by Value
 - 4.3.7 Rest of Asia Pacific Artificial Intelligence in Medical Imaging Market by Value
- 4.4 Rest of the World Artificial Intelligence in Medical Imaging Market: An Analysis
 - 4.4.1 Rest of the World Artificial Intelligence in Medical Imaging Market by Value

5. IMPACT OF COVID-19

- 5.1 Impact of COVID-19 on AI in Medical Imaging Market
 - 5.1.1 Impact on Demand
 - 5.1.2 Impact on Supply
- 5.2 Application of AI-Based Medical Imaging in COVID-19 Pandemic
- 5.3 Impact of COVID-19 On Medical Imaging Market

6. MARKET DYNAMICS

6.1 Growth Drivers

- 6.1.1 Increasing Burden of Chronic Diseases
- 6.1.2 Increasing Health Spending
- 6.1.3 Increasing Funding in Artificial Intelligence
- 6.1.4 Technology Upgrades and Innovation
- 6.1.5 Increase in Demand for Medical Imaging
- 6.1.6 Increasing Government Expenditure and Policy Support

6.2 Challenges

- 6.2.1 Development Hurdles
- 6.2.2 Complexity in Identifying Business Use Cases for Acquiring Radiology Software
- 6.2.3 Inadequate Availability of Training Data Sets
- 6.2.4 The Black-box Nature of AI

6.3 Market Trends

- 6.3.1 Moving Toward Superhuman Disease Detection
- 6.3.2 Increasing Diversity in Training Datasets
- 6.3.3 Detecting Multiple Diseases from A Single Image
- 6.3.4 High Image Resolution to Maximize Algorithm Performance

7. COMPETITIVE LANDSCAPE

7.1 Global AI in Medical Imaging Market Players: A Financial Comparison

7.2 Global AI in Medical Imaging Market Players by Research & Development Expenses Comparison

8. COMPANY PROFILES

8.1 IBM (IBM Watson Health)

- 8.1.1 Business Overview
- 8.1.2 Financial Overview
- 8.1.3 Business Strategy

8.2 Butterfly Network, Inc.

- 8.2.1 Business Overview
- 8.2.2 Financial Overview
- 8.2.3 Business Strategy

8.3 Gauss Surgical, Inc.

- 8.3.1 Business Overview
- 8.3.2 Business Strategy

8.4 Arterys

8.4.1 Business Overview

8.4.2 Business Strategy

List Of Figures

LIST OF FIGURES

Figure 1: Pros and Cons of AI in Medical Imaging

Figure 2: Uses of AI in Medical Imaging

Figure 3: AI Areas of Impact for Medical Imaging Practices

Figure 4: Artificial Intelligence in Medical Imaging Segmentation

Figure 5: Global Artificial Intelligence in Medical Imaging Market by Value; 2019-2021 (US\$ Billion)

Figure 6: Global Artificial Intelligence in Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 7: Global Artificial Intelligence in Medical Imaging Market by Image Acquisition Technology; 2021 (Percentage, %)

Figure 8: Global Artificial Intelligence in Medical Imaging Market by AI Technology; 2021 (Percentage, %)

Figure 9: Global Artificial Intelligence in Medical Imaging Market by Clinical Application; 2021 (Percentage, %)

Figure 10: Global Artificial Intelligence in Medical Imaging Market by Region; 2021 (Percentage, %)

Figure 11: Global Artificial Intelligence in X-Ray Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 12: Global Artificial Intelligence in X-Ray Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 13: Global Artificial Intelligence in CT Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 14: Global Artificial Intelligence in CT Medical Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 15: Global Artificial Intelligence in MRI Market by Value; 2019-2021 (US\$ Million)

Figure 16: Global Artificial Intelligence in MRI Market by Value; 2022-2026 (US\$ Million)

Figure 17: Global Artificial Intelligence in Ultrasound Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 18: Global Artificial Intelligence in Ultrasound Medical Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 19: Global Artificial Intelligence in Molecular Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 20: Global Artificial Intelligence in Molecular Medical Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 21: Global Deep Learning AI in Medical Imaging Market by Value; 2019-2021

(US\$ Million)

Figure 22: Global Deep Learning AI in Medical Imaging Market by Value; 2022-2026

(US\$ Billion)

Figure 23: Global Other AI and Computer Vision in Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 24: Global Other AI and Computer Vision in Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 25: Global Artificial Intelligence in Cardiology Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 26: Global Artificial Intelligence in Cardiology Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 27: Global Artificial Intelligence in Neurology Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 28: Global Artificial Intelligence in Neurology Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 29: Global Artificial Intelligence in Breast Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 30: Global Artificial Intelligence in Breast Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 31: Global Artificial Intelligence in Pulmonology Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 32: Global Artificial Intelligence in Pulmonology Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 33: Global Artificial Intelligence in Liver Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 34: Global Artificial Intelligence in Liver Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 35: Global Artificial Intelligence in Rest of Body Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 36: Global Artificial Intelligence in Rest of Body Imaging Market by Value; 2022-2026 (US\$ Million)

Figure 37: North America AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 38: North America AI in Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 39: Europe AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 40: Europe AI in Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

Figure 41: Asia Pacific AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)

Figure 42: Asia Pacific AI in Medical Imaging Market by Value; 2022-2026 (US\$ Billion)

- Figure 43: Asia Pacific AI in Medical Imaging Market by Region; 2021 (Percentage, %)
- Figure 44: China AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)
- Figure 45: China AI in Medical Imaging Market by Value; 2022-2026 (US\$ Million)
- Figure 46: China AI in Medical Imaging Market by End-User; 2021 (Percentage, %)
- Figure 47: China AI in Medical Institutions Imaging Market by Value; 2019-2021 (US\$ Million)
- Figure 48: China AI in Medical Institutions Imaging Market by Value; 2022-2026 (US\$ Million)
- Figure 49: China AI in Consumer Healthcare Environment Medical Imaging Market by Value; 2019-2021 (US\$ Million)
- Figure 50: China AI in Consumer Healthcare Environment Medical Imaging Market by Value; 2022-2026 (US\$ Million)
- Figure 51: Rest of Asia Pacific AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)
- Figure 52: Rest of Asia Pacific AI in Medical Imaging Market by Value; 2022-2026 (US\$ Million)
- Figure 53: Rest of the World AI in Medical Imaging Market by Value; 2019-2021 (US\$ Million)
- Figure 54: Rest of the World AI in Medical Imaging Market by Value; 2022-2026 (US\$ Million)
- Figure 55: Global Medical Imaging and Informatics Market Revenue; 2017-2021 (US\$ Billion)
- Figure 56: The US Death Rate per 100,000 Population for the 5 Leading Causes of Death; 2019-2020 (Rate)
- Figure 57: Global Health Spending Per Capita; 2017-2020 (US\$ Thousand)
- Figure 58: Global Equity Funding of Artificial Intelligence (AI) Deals in Healthcare; 2015-2020 (US\$ Million)
- Figure 59: Global AI in Medical Imaging Market Players by Research & Development Expenses Comparison; 2018-2020 (US\$ Million)
- Figure 60: IBM Revenue; 2016-2020 (US\$ Billion)
- Figure 61: IBM Revenue by Segment; 2020 (Percentage, %)
- Figure 62: IBM Revenue by Region; 2020 (Percentage, %)
- Figure 63: Butterfly Network, Inc. Revenue; 2018-2020 (US\$ Million)
- Table 1: Global AI in Medical Imaging Market Players: A Financial Comparison; 2020

I would like to order

Product name: Global Artificial Intelligence in Medical Imaging Market: Size, Trends & Forecast with Impact of COVID-19 (2022-2026)

Product link: <https://marketpublishers.com/r/G619413A1F90EN.html>

Price: US\$ 850.00 (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/G619413A1F90EN.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**

Customer 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

