

AI in Healthcare Claims Management Market Forecasts to 2034 – Global Analysis By Component (Software and Services), Technology, Claims Type, Function, Application, End User and By Geography

<https://marketpublishers.com/r/A9052B4D169EEN.html>

Date: June 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: A9052B4D169EEN

Abstracts

According to Statistics MRC, the Global AI in Healthcare Claims Management Market is accounted for \$4.1 billion in 2026 and is expected to reach \$18.6 billion by 2034, growing at a CAGR of 20.7% during the forecast period. AI in AI in Healthcare Claims Management refers to the deployment of machine learning, natural language processing, and robotic process automation technologies to automate, validate, and optimize the processing of medical, pharmacy, dental, and hospital insurance claims. These solutions accelerate adjudication cycles, reduce administrative overhead, detect fraudulent submissions, and enhance denial prediction accuracy.

Market Dynamics:

Driver:

Escalating claims volumes and administrative cost pressures on payers and providers

The global healthcare system processes billions of insurance claims annually, with administrative costs consuming a disproportionate share of total healthcare expenditure. Manual claims adjudication is inherently error-prone, labor-intensive, and subject to compliance risks. AI-powered platforms drastically reduce processing time from days to minutes while improving accuracy through automated data validation and intelligent coding assistance. Payers facing competitive margin pressures and providers burdened with high denial rates are increasingly turning to AI solutions to streamline revenue cycles, accelerate cash flow, and reallocate skilled staff to higher-value activities.

Restraint:

Data privacy concerns and complex regulatory compliance requirements

Healthcare claims data is among the most sensitive categories of personal information, subject to stringent data protection frameworks including HIPAA in the United States and GDPR in Europe. Deploying AI systems that process, store, and analyze this data introduces significant compliance obligations around consent, data minimization, and breach notification. Healthcare payers must also ensure AI decision-making processes meet explainability standards, particularly when automated denials are subject to regulatory review. These compliance complexities increase implementation costs and create organizational hesitancy among risk-averse payers and health systems considering large-scale AI adoption.

Opportunity:

Generative AI applications in automated prior authorization and denial management

Generative AI presents a landmark opportunity in AI in Healthcare Claims Management, particularly in automating prior authorization decisions and denial appeal processes that currently consume extensive clinician and administrative time. Large language models trained on clinical guidelines and payer policy documents can generate accurate, contextually appropriate authorization recommendations in seconds. Similarly, AI-generated appeal letters leveraging clinical evidence extraction from medical records significantly improve reversal rates for denied claims.

Threat:

Algorithmic bias and ethical concerns in automated claims adjudication

The use of AI algorithms to make or support claims adjudication and denial decisions raises material concerns around systemic bias and equitable access to care. If training datasets reflect historical disparities in claims processing, resulting models may perpetuate discriminatory outcomes against certain patient demographics or provider types. Regulatory scrutiny from CMS and state insurance commissioners is intensifying, with new requirements for algorithmic transparency and audit trails. Healthcare payers deploying AI adjudication tools face reputational and legal exposure if algorithmic bias leads to unjust denials, necessitating robust bias testing protocols and ongoing model

governance programs.

Covid-19 Impact:

The COVID-19 pandemic generated an unprecedented surge in healthcare claims, including novel claim types for telehealth services, COVID-19 testing, and vaccine administration that existing systems were ill-equipped to process. Overwhelmed payer operations and extended adjudication backlogs spurred accelerated investment in AI-powered claims automation. The pandemic demonstrated the scalability advantages of intelligent platforms capable of rapidly incorporating new billing codes and processing rules without manual reconfiguration, permanently elevating the strategic priority of AI adoption across revenue cycle functions.

The software segment is expected to be the largest during the forecast period

The software segment is expected to account for the largest market share during the forecast period, , driven by strong and growing demand for claims processing automation platforms, fraud detection tools, and revenue cycle management solutions across payers, providers, and third-party administrators. Enterprise software deployments offer scalable, configurable platforms that integrate with existing claims management systems and EHR infrastructure. The shift toward cloud-native SaaS delivery models has lowered barriers to entry, enabling mid-sized payers and regional health systems to access sophisticated AI capabilities without extensive on-premise IT investment.

The Generative AI segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Generative AI segment is predicted to witness the highest growth rate, , reflecting its transformative potential in automating complex, language-intensive claims tasks such as prior authorization, clinical documentation review, and denial appeal generation. Unlike traditional rule-based systems, generative AI models can interpret unstructured clinical notes, extract relevant diagnostic evidence, and produce policy-compliant authorization responses with minimal human intervention. The rapidly declining cost of large language model deployment and growing availability of healthcare-specific pre-trained models are accelerating enterprise adoption.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by the complexity and scale of the U.S. healthcare reimbursement system, which processes over a trillion dollars in annual claims through multiple public and private payer channels. High claims processing costs, stringent CMS compliance mandates, and substantial prior authorization burdens create compelling business cases for AI adoption. The region benefits from a dense ecosystem of health IT vendors, substantial venture capital investment in digital health, and progressive regulatory frameworks encouraging innovation in claims automation.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, propelled by rapid expansion of private health insurance markets in China, India, and Southeast Asia. Rising healthcare expenditure, growing insured populations, and government-led digital health initiatives are creating demand for scalable claims management infrastructure. Insurers entering high-growth emerging markets are bypassing legacy systems and adopting cloud-native AI platforms from inception, enabling faster deployment cycles and lower total cost of ownership compared to established markets undergoing costly legacy modernization.

Key players in the market

Some of the key players in AI in Healthcare Claims Management Market include International Business Machines Corporation, Oracle Corporation, Optum, Inc., Cognizant, Change Healthcare, Conduent Incorporated, EXL Service Holdings, Inc., Cotiviti, Inc., Wipro Limited, Infosys Limited, NVIDIA Corporation, HCL Technologies Limited, NTT DATA Group Corporation, FICO, SAS Institute Inc.

Key Developments:

In March 2026, IBM Corporation announced an expansion of its Watson Health AI portfolio with a new generative AI module for claims denial management, enabling healthcare providers to automatically generate evidence-based appeal documentation by extracting relevant clinical data from electronic health records.

In February 2026, Optum, Inc. launched an enhanced AI-driven prior authorization platform integrated with real-time clinical decision support capabilities, enabling health plans to automate approval decisions for routine procedures while flagging complex cases for expedited clinical review.

Components Covered:

Software

Services

Technologies Covered:

Machine Learning (ML)

Natural Language Processing (NLP)

Robotic Process Automation (RPA)

Computer Vision

Predictive Analytics

Generative AI

Deep Learning

Cloud-Based AI

Claims Types Covered:

Medical Claims

Pharmacy Claims

Dental Claims

Vision Claims

Hospital Claims

Outpatient Claims

Functions Covered:

Claims Adjudication

Claims Review & Validation

Fraud Detection & Prevention

Coding & Billing Automation

Eligibility Verification

Prior Authorization Management

Denial Prediction & Management

Applications Covered:

Claims Automation

Fraud Analytics

Revenue Cycle Optimization

Payment Accuracy Management

Customer Experience Enhancement

Administrative Cost Reduction

Compliance & Audit Management

End Users Covered:

Healthcare Payers

Healthcare Providers

Third-Party Administrators (TPAs)

Pharmacy Benefit Managers (PBMs)

Revenue Cycle Management Companies

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

§ Saudi Arabia

§ United Arab Emirates

§ Qatar

§ Israel

§ Rest of Middle East

Africa

§ South Africa

§ Egypt

§ Morocco

§ Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market

estimations

- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY COMPONENT

- 5.1 Software
 - 5.1.1 Claims Processing Software
 - 5.1.2 Fraud Detection Software
 - 5.1.3 Predictive Analytics Solutions
 - 5.1.4 Revenue Cycle Management Solutions
 - 5.1.5 Denial Management Solutions
 - 5.1.6 Payment Integrity Solutions
 - 5.1.7 Workflow Automation Platforms
- 5.2 Services

6 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY TECHNOLOGY

- 6.1 Machine Learning (ML)
- 6.2 Natural Language Processing (NLP)
- 6.3 Robotic Process Automation (RPA)
- 6.4 Computer Vision
- 6.5 Predictive Analytics
- 6.6 Generative AI
- 6.7 Deep Learning
- 6.8 Cloud-Based AI

7 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY CLAIMS TYPE

- 7.1 Medical Claims
- 7.2 Pharmacy Claims
- 7.3 Dental Claims
- 7.4 Vision Claims
- 7.5 Hospital Claims
- 7.6 Outpatient Claims

8 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY FUNCTION

- 8.1 Claims Adjudication
- 8.2 Claims Review & Validation
- 8.3 Fraud Detection & Prevention
- 8.4 Coding & Billing Automation
- 8.5 Eligibility Verification
- 8.6 Prior Authorization Management
- 8.7 Denial Prediction & Management

9 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY APPLICATION

- 9.1 Claims Automation
- 9.2 Fraud Analytics
- 9.3 Revenue Cycle Optimization
- 9.4 Payment Accuracy Management
- 9.5 Customer Experience Enhancement
- 9.6 Administrative Cost Reduction
- 9.7 Compliance & Audit Management

10 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY END USER

- 10.1 Healthcare Payers
- 10.2 Healthcare Providers
- 10.3 Third-Party Administrators (TPAs)
- 10.4 Pharmacy Benefit Managers (PBMs)
- 10.5 Revenue Cycle Management Companies

11 GLOBAL AI IN HEALTHCARE CLAIMS MANAGEMENT MARKET, BY GEOGRAPHY

- 11.1 North America
 - 11.1.1 United States
 - 11.1.2 Canada
 - 11.1.3 Mexico
- 11.2 Europe
 - 11.2.1 United Kingdom
 - 11.2.2 Germany

- 11.2.3 France
- 11.2.4 Italy
- 11.2.5 Spain
- 11.2.6 Netherlands
- 11.2.7 Belgium
- 11.2.8 Sweden
- 11.2.9 Switzerland
- 11.2.10 Poland
- 11.2.11 Rest of Europe
- 11.3 Asia Pacific
 - 11.3.1 China
 - 11.3.2 Japan
 - 11.3.3 India
 - 11.3.4 South Korea
 - 11.3.5 Australia
 - 11.3.6 Indonesia
 - 11.3.7 Thailand
 - 11.3.8 Malaysia
 - 11.3.9 Singapore
 - 11.3.10 Vietnam
 - 11.3.11 Rest of Asia Pacific
- 11.4 South America
 - 11.4.1 Brazil
 - 11.4.2 Argentina
 - 11.4.3 Colombia
 - 11.4.4 Chile
 - 11.4.5 Peru
 - 11.4.6 Rest of South America
- 11.5 Rest of the World (RoW)
 - 11.5.1 Middle East
 - 11.5.1.1 Saudi Arabia
 - 11.5.1.2 United Arab Emirates
 - 11.5.1.3 Qatar
 - 11.5.1.4 Israel
 - 11.5.1.5 Rest of Middle East
 - 11.5.2 Africa
 - 11.5.2.1 South Africa
 - 11.5.2.2 Egypt
 - 11.5.2.3 Morocco

11.5.2.4 Rest of Africa

12 STRATEGIC MARKET INTELLIGENCE

12.1 Industry Value Network and Supply Chain Assessment

12.2 White-Space and Opportunity Mapping

12.3 Product Evolution and Market Life Cycle Analysis

12.4 Channel, Distributor, and Go-to-Market Assessment

13 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

13.1 Mergers and Acquisitions

13.2 Partnerships, Alliances, and Joint Ventures

13.3 New Product Launches and Certifications

13.4 Capacity Expansion and Investments

13.5 Other Strategic Initiatives

14 COMPANY PROFILES

14.1 International Business Machines Corporation

14.2 Oracle Corporation

14.3 Optum, Inc.

14.4 Cognizant

14.5 Change Healthcare

14.6 Conduent Incorporated

14.7 EXL Service Holdings, Inc.

14.8 Cotiviti, Inc.

14.9 Wipro Limited

14.10 Infosys Limited

14.11 NVIDIA Corporation

14.12 HCL Technologies Limited

14.13 NTT DATA Group Corporation

14.14 FICO

14.15 SAS Institute Inc.

List Of Tables

LIST OF TABLES

Table 1 Global AI in Healthcare Claims Management Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global AI in Healthcare Claims Management Market Outlook, By Component (2023-2034) (\$MN)

Table 3 Global AI in Healthcare Claims Management Market Outlook, By Software (2023-2034) (\$MN)

Table 4 Global AI in Healthcare Claims Management Market Outlook, By Claims Processing Software (2023-2034) (\$MN)

Table 5 Global AI in Healthcare Claims Management Market Outlook, By Fraud Detection Software (2023-2034) (\$MN)

Table 6 Global AI in Healthcare Claims Management Market Outlook, By Predictive Analytics Solutions (2023-2034) (\$MN)

Table 7 Global AI in Healthcare Claims Management Market Outlook, By Revenue Cycle Management Solutions (2023-2034) (\$MN)

Table 8 Global AI in Healthcare Claims Management Market Outlook, By Denial Management Solutions (2023-2034) (\$MN)

Table 9 Global AI in Healthcare Claims Management Market Outlook, By Payment Integrity Solutions (2023-2034) (\$MN)

Table 10 Global AI in Healthcare Claims Management Market Outlook, By Workflow Automation Platforms (2023-2034) (\$MN)

Table 11 Global AI in Healthcare Claims Management Market Outlook, By Services (2023-2034) (\$MN)

Table 12 Global AI in Healthcare Claims Management Market Outlook, By Technology (2023-2034) (\$MN)

Table 13 Global AI in Healthcare Claims Management Market Outlook, By Machine Learning (ML) (2023-2034) (\$MN)

Table 14 Global AI in Healthcare Claims Management Market Outlook, By Natural Language Processing (NLP) (2023-2034) (\$MN)

Table 15 Global AI in Healthcare Claims Management Market Outlook, By Robotic Process Automation (RPA) (2023-2034) (\$MN)

Table 16 Global AI in Healthcare Claims Management Market Outlook, By Computer Vision (2023-2034) (\$MN)

Table 17 Global AI in Healthcare Claims Management Market Outlook, By Predictive Analytics (2023-2034) (\$MN)

Table 18 Global AI in Healthcare Claims Management Market Outlook, By Generative

AI (2023-2034) (\$MN)

Table 19 Global AI in Healthcare Claims Management Market Outlook, By Deep Learning (2023-2034) (\$MN)

Table 20 Global AI in Healthcare Claims Management Market Outlook, By Cloud-Based AI (2023-2034) (\$MN)

Table 21 Global AI in Healthcare Claims Management Market Outlook, By Claims Type (2023-2034) (\$MN)

Table 22 Global AI in Healthcare Claims Management Market Outlook, By Medical Claims (2023-2034) (\$MN)

Table 23 Global AI in Healthcare Claims Management Market Outlook, By Pharmacy Claims (2023-2034) (\$MN)

Table 24 Global AI in Healthcare Claims Management Market Outlook, By Dental Claims (2023-2034) (\$MN)

Table 25 Global AI in Healthcare Claims Management Market Outlook, By Vision Claims (2023-2034) (\$MN)

Table 26 Global AI in Healthcare Claims Management Market Outlook, By Hospital Claims (2023-2034) (\$MN)

Table 27 Global AI in Healthcare Claims Management Market Outlook, By Outpatient Claims (2023-2034) (\$MN)

Table 28 Global AI in Healthcare Claims Management Market Outlook, By Function (2023-2034) (\$MN)

Table 29 Global AI in Healthcare Claims Management Market Outlook, By Claims Adjudication (2023-2034) (\$MN)

Table 30 Global AI in Healthcare Claims Management Market Outlook, By Claims Review & Validation (2023-2034) (\$MN)

Table 31 Global AI in Healthcare Claims Management Market Outlook, By Fraud Detection & Prevention (2023-2034) (\$MN)

Table 32 Global AI in Healthcare Claims Management Market Outlook, By Coding & Billing Automation (2023-2034) (\$MN)

Table 33 Global AI in Healthcare Claims Management Market Outlook, By Eligibility Verification (2023-2034) (\$MN)

Table 34 Global AI in Healthcare Claims Management Market Outlook, By Prior Authorization Management (2023-2034) (\$MN)

Table 35 Global AI in Healthcare Claims Management Market Outlook, By Denial Prediction & Management (2023-2034) (\$MN)

Table 36 Global AI in Healthcare Claims Management Market Outlook, By Application (2023-2034) (\$MN)

Table 37 Global AI in Healthcare Claims Management Market Outlook, By Claims Automation (2023-2034) (\$MN)

Table 38 Global AI in Healthcare Claims Management Market Outlook, By Fraud Analytics (2023-2034) (\$MN)

Table 39 Global AI in Healthcare Claims Management Market Outlook, By Revenue Cycle Optimization (2023-2034) (\$MN)

Table 40 Global AI in Healthcare Claims Management Market Outlook, By Payment Accuracy Management (2023-2034) (\$MN)

Table 41 Global AI in Healthcare Claims Management Market Outlook, By Customer Experience Enhancement (2023-2034) (\$MN)

Table 42 Global AI in Healthcare Claims Management Market Outlook, By Administrative Cost Reduction (2023-2034) (\$MN)

Table 43 Global AI in Healthcare Claims Management Market Outlook, By Compliance & Audit Management (2023-2034) (\$MN)

Table 44 Global AI in Healthcare Claims Management Market Outlook, By End User (2023-2034) (\$MN)

Table 45 Global AI in Healthcare Claims Management Market Outlook, By Healthcare Payers (2023-2034) (\$MN)

Table 46 Global AI in Healthcare Claims Management Market Outlook, By Healthcare Providers (2023-2034) (\$MN)

Table 47 Global AI in Healthcare Claims Management Market Outlook, By Third-Party Administrators (TPAs) (2023-2034) (\$MN)

Table 48 Global AI in Healthcare Claims Management Market Outlook, By Pharmacy Benefit Managers (PBMs) (2023-2034) (\$MN)

Table 49 Global AI in Healthcare Claims Management Market Outlook, By Revenue Cycle Management Companies (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

I would like to order

Product name: AI in Healthcare Claims Management Market Forecasts to 2034 – Global Analysis By Component (Software and Services), Technology, Claims Type, Function, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/A9052B4D169EEN.html>

Price: US\$ 4,150.00 (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/A9052B4D169EEN.html>