

Explainable AI Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Solution, Services), By Deployment (Cloud, On-Premises), By Application (Fraud & Anomaly Detection, Drug Discovery & Diagnostics, Predictive Maintenance, Supply chain management, Identity and access management, Others), By End-use (Healthcare, BFSI, Aerospace & defense, Retail and e-commerce, Public sector & utilities, IT & telecommunication, Automotive, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Explainable AI Market will grow from USD 6.81 Billion in 2025 to USD 19.04 Billion by 2031 at a 18.69% CAGR. Explainable AI (XAI) defines a set of protocols and methods that enable human users to comprehend and validate the outputs generated by machine learning algorithms.

Key Market Drivers

The implementation of stringent government regulations and compliance mandates acts as a primary catalyst for the Global Explainable AI Market. Governments worldwide are enforcing legal frameworks that require transparency in automated decision-making processes to prevent bias and ensure accountability. These legislative measures compel organizations to adopt explainable AI (XAI) solutions that can deconstruct complex model behaviors into interpretable audits for regulators.

Key Market Challenges

The primary challenge hampering the Global Explainable AI Market is the inherent trade-off between predictive accuracy and model interpretability, often described as the 'black box' problem. As organizations strive for higher performance, they frequently deploy complex deep learning models that offer superior accuracy but lack transparent logic. This opacity creates substantial friction in regulated industries such as finance and healthcare, where stakeholders must validate decisions to meet strict compliance and liability standards.

Key Market Trends

Integration of Explainability into MLOps and LLMOps Workflows marks a pivotal shift in the market, moving interpretability from ad-hoc analysis to a continuous, embedded function within deployment pipelines. Enterprises are increasingly prioritizing real-time observability to manage the operational complexity of Large Language Models (LLMs), where tracing retrieval contexts and validating outputs are essential for maintaining reliability. This technical integration allows engineering teams to instantaneously diagnose hallucinations or drift, ensuring that model behavior aligns with intended logic during production scaling.

Key Market Players

International Business Machines Corporation

Microsoft Corporation

Google LLC

DataRobot Inc.

Amelia US LLC

Kyndi Inc.

Seldon Technologies Limited

Arthur.ai

Ditto.ai

NVIDIA Corporation

Report Scope:

In this report, the Global Explainable AI Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Explainable AI Market, By Component:

Solution

Services

Explainable AI Market, By Deployment:

Cloud

On-Premises

Explainable AI Market, By Application:

Fraud & Anomaly Detection

Drug Discovery & Diagnostics

Predictive Maintenance

Supply chain management

Identity and access management

Others

Explainable AI Market, By End-use:

Healthcare

BFSI

Aerospace & defense

Retail and e-commerce

Public sector & utilities

IT & telecommunication

Automotive

Others

Explainable AI Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Explainable AI Market.

Available Customizations:

Global Explainable AI Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL EXPLAINABLE AI MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Component (Solution, Services)
 - 5.2.2. By Deployment (Cloud, On-Premises)
 - 5.2.3. By Application (Fraud & Anomaly Detection, Drug Discovery & Diagnostics, Predictive Maintenance, Supply chain management, Identity and access management,

Others)

5.2.4. By End-use (Healthcare, BFSI, Aerospace & defense, Retail and e-commerce, Public sector & utilities, IT & telecommunication, Automotive, Others)

5.2.5. By Region

5.2.6. By Company (2025)

5.3. Market Map

6. NORTH AMERICA EXPLAINABLE AI MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component

6.2.2. By Deployment

6.2.3. By Application

6.2.4. By End-use

6.2.5. By Country

6.3. North America: Country Analysis

6.3.1. United States Explainable AI Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Component

6.3.1.2.2. By Deployment

6.3.1.2.3. By Application

6.3.1.2.4. By End-use

6.3.2. Canada Explainable AI Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Component

6.3.2.2.2. By Deployment

6.3.2.2.3. By Application

6.3.2.2.4. By End-use

6.3.3. Mexico Explainable AI Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Component

- 6.3.3.2.2. By Deployment
- 6.3.3.2.3. By Application
- 6.3.3.2.4. By End-use

7. EUROPE EXPLAINABLE AI MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component

7.2.2. By Deployment

7.2.3. By Application

7.2.4. By End-use

7.2.5. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Explainable AI Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Component

7.3.1.2.2. By Deployment

7.3.1.2.3. By Application

7.3.1.2.4. By End-use

7.3.2. France Explainable AI Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Component

7.3.2.2.2. By Deployment

7.3.2.2.3. By Application

7.3.2.2.4. By End-use

7.3.3. United Kingdom Explainable AI Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Component

7.3.3.2.2. By Deployment

7.3.3.2.3. By Application

7.3.3.2.4. By End-use

7.3.4. Italy Explainable AI Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Component

7.3.4.2.2. By Deployment

7.3.4.2.3. By Application

7.3.4.2.4. By End-use

7.3.5. Spain Explainable AI Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Component

7.3.5.2.2. By Deployment

7.3.5.2.3. By Application

7.3.5.2.4. By End-use

8. ASIA PACIFIC EXPLAINABLE AI MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Deployment

8.2.3. By Application

8.2.4. By End-use

8.2.5. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China Explainable AI Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By Deployment

8.3.1.2.3. By Application

8.3.1.2.4. By End-use

8.3.2. India Explainable AI Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

- 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Component
 - 8.3.2.2.2. By Deployment
 - 8.3.2.2.3. By Application
 - 8.3.2.2.4. By End-use
- 8.3.3. Japan Explainable AI Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Component
 - 8.3.3.2.2. By Deployment
 - 8.3.3.2.3. By Application
 - 8.3.3.2.4. By End-use
- 8.3.4. South Korea Explainable AI Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Component
 - 8.3.4.2.2. By Deployment
 - 8.3.4.2.3. By Application
 - 8.3.4.2.4. By End-use
- 8.3.5. Australia Explainable AI Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Deployment
 - 8.3.5.2.3. By Application
 - 8.3.5.2.4. By End-use

9. MIDDLE EAST & AFRICA EXPLAINABLE AI MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Deployment
 - 9.2.3. By Application
 - 9.2.4. By End-use

- 9.2.5. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Explainable AI Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Deployment
 - 9.3.1.2.3. By Application
 - 9.3.1.2.4. By End-use
 - 9.3.2. UAE Explainable AI Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Deployment
 - 9.3.2.2.3. By Application
 - 9.3.2.2.4. By End-use
 - 9.3.3. South Africa Explainable AI Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Component
 - 9.3.3.2.2. By Deployment
 - 9.3.3.2.3. By Application
 - 9.3.3.2.4. By End-use

10. SOUTH AMERICA EXPLAINABLE AI MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Component
 - 10.2.2. By Deployment
 - 10.2.3. By Application
 - 10.2.4. By End-use
 - 10.2.5. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Explainable AI Market Outlook

- 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Component
 - 10.3.1.2.2. By Deployment
 - 10.3.1.2.3. By Application
 - 10.3.1.2.4. By End-use
- 10.3.2. Colombia Explainable AI Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Component
 - 10.3.2.2.2. By Deployment
 - 10.3.2.2.3. By Application
 - 10.3.2.2.4. By End-use
- 10.3.3. Argentina Explainable AI Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Component
 - 10.3.3.2.2. By Deployment
 - 10.3.3.2.3. By Application
 - 10.3.3.2.4. By End-use

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL EXPLAINABLE AI MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. International Business Machines Corporation
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. Microsoft Corporation
- 15.3. Google LLC
- 15.4. DataRobot Inc.
- 15.5. Amelia US LLC
- 15.6. Kyndi Inc.
- 15.7. Seldon Technologies Limited
- 15.8. Arthur.ai
- 15.9. Ditto.ai
- 15.10. NVIDIA Corporation

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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