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Global AI Model Risk Management Market Size Study & Forecast, by Offering, Risk Type, Application, Vertical and Regional Forecasts 2025-2035

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Abstracts

The Global AI Model Risk Management Market is valued at approximately USD 5.7 billion in 2024 and is expected to exhibit a compelling CAGR of 12.80% during the forecast period from 2025 to 2035. As enterprises rapidly integrate artificial intelligence into mission-critical workflows, the demand for structured, reliable, and accountable risk governance frameworks has risen sharply. AI Model Risk Management (MRM) has emerged as an indispensable discipline that not only identifies and mitigates model inaccuracies and biases but also helps institutions comply with evolving regulatory mandates and maintain public trust. With machine learning models now influencing key decisions in credit scoring, fraud detection, trading algorithms, and customer analytics, even a minor model failure can cascade into costly reputational and financial damages—making robust risk oversight non-negotiable.

The proliferation of AI models, particularly within banking, insurance, and fintech verticals, has catalyzed the market's momentum. Institutions are increasingly deploying MRM platforms that provide end-to-end lifecycle oversight—covering model validation, version control, bias detection, interpretability, and audit trails. Vendors are offering sophisticated software solutions with embedded explainable AI (XAI), sandbox testing environments, and real-time anomaly detection to facilitate regulatory alignment with frameworks such as SR 11-7, GDPR, and Basel guidelines. Additionally, growing awareness among C-suite leaders about AI ethics and algorithmic accountability is unlocking budgetary allocation for risk governance initiatives. However, interoperability challenges with legacy systems and a global shortage of skilled AI risk professionals are tempering short-term scalability in certain regions.

Regionally, North America dominates the market due to its technologically advanced

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financial ecosystem and stringent regulatory culture, spearheaded by agencies like the Federal Reserve and OCC that emphasize model governance. The U.S., in particular, has witnessed a surge in demand for centralized model risk platforms across Tier 1 banks and fintech giants. Meanwhile, Europe is gaining traction, driven by its proactive data protection laws and initiatives such as the EU AI Act which impose transparency and explainability standards for AI systems. Asia Pacific is forecasted to be the fastest-growing market, led by digital banking adoption in countries like India, Singapore, China, and South Korea. Government-backed AI innovation strategies, along with a growing presence of global consultancies offering MRM services, are expected to accelerate adoption across the region.

Major market player included in this report are:

IBM Corporation

SAS Institute Inc.

FICO

Moody’s Analytics

Google LLC

Microsoft Corporation

Oracle Corporation

Amazon Web Services, Inc.

DataRobot

Altair Engineering Inc.

H2O.ai

Zest AI

KPMG

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Accenture PLC

Infosys Limited

Global AI Model Risk Management Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Offering:

Software

By Type

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- By Deployment Mode
- Services

By Risk Type:

- Model Risk
- Compliance Risk
- Operational Risk
- Cyber Risk
- Others

By Application:

- Risk Management
- Fraud Detection
- Credit Assessment
- Regulatory Compliance
- Others

By Vertical:

- Banking
- Financial Services
- Insurance

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- Healthcare
- Retail
- Government
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India

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- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.

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Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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