Chartis RiskTech AI 50 2024

About Chartis

Chartis Research is the leading provider of research and analysis on the global market for risk technology. It is part of Infopro Digital, which owns market-leading brands such as Risk and WatersTechnology. Chartis' goal is to support enterprises as they drive business performance through improved risk management, corporate governance and compliance, and to help clients make informed technology and business decisions by providing in-depth analysis and actionable advice on virtually all aspects of risk technology. Areas of expertise include:

- Credit risk.
- Operational risk and governance, risk management and compliance (GRC).
- Market risk.
- Asset and liability management (ALM) and liquidity risk.
- Energy and commodity trading risk.
- Financial crime, including trader surveillance, anti-fraud and anti-money laundering.
- Cyber risk management.
- Insurance risk.
- Regulatory requirements.
- Wealth advisory.
- Asset management.

Chartis focuses on risk and compliance technology, giving it a significant advantage over generic market analysts.

The firm has brought together a leading team of analysts and advisors from the risk management and financial services industries. This team has hands-on experience of developing and implementing risk management systems and programs for Fortune 500 companies and leading consulting firms.

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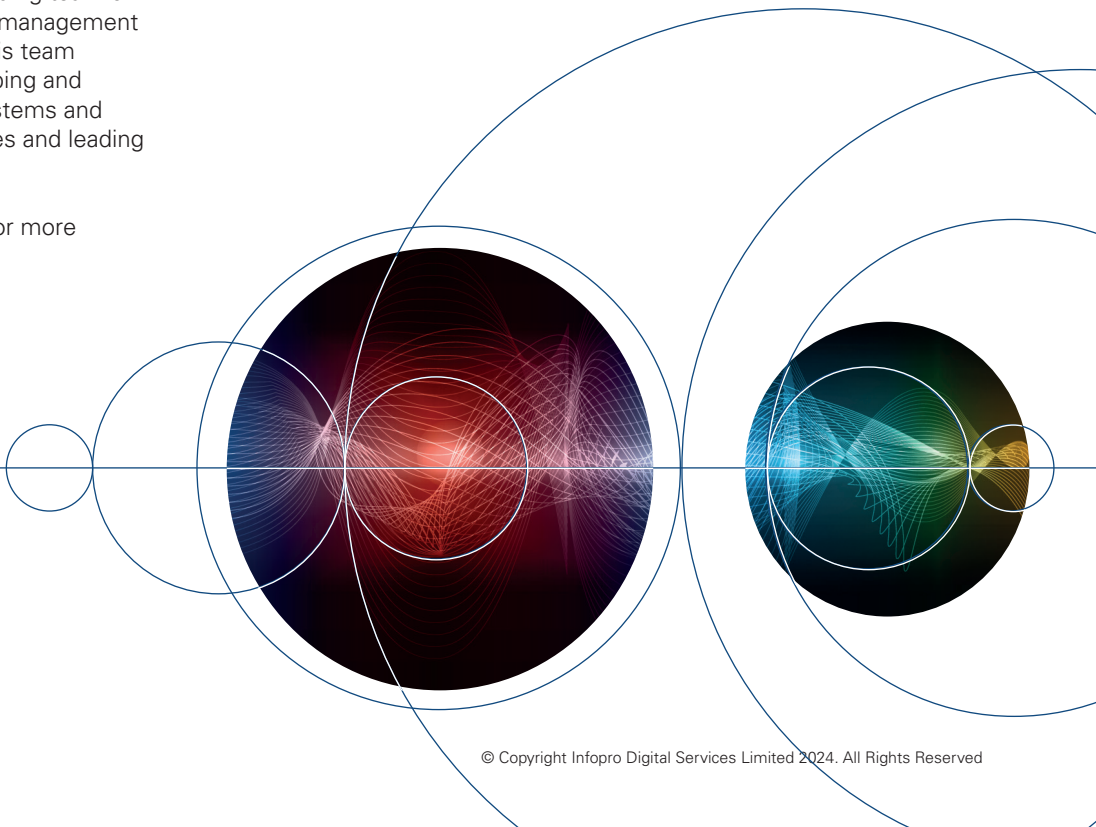

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1. Foreword

Welcome to the inaugural Chartis RiskTech AI 50 ranking and research, which explores the broad landscape of AI development and adoption in the financial services. As part of this comprehensive and extensive research, we examine specific training techniques and machine learning (ML) architectures, and look beyond the hype to identify not only those areas that are maturing, but also those offering promising growth and innovation.

Indeed, while the relative levels of maturity of AI-based applications and tools vary widely, we also believe that AI and AI tools will increasingly become core components of risk and analytics, co-existing and blending with other statistical and mathematical elements.

For now, though, this is an area undergoing rapid evolution, and one thing is clear: AI and ML are now part of the mainstream, and they will continue to have profound impacts on businesses of all types. As new tech providers continue to emerge in the market, with ever more innovative and potentially game-changing offerings, Chartis' goal remains to analyze this dynamic and changing landscape, and recognize the companies operating within it.

With that in mind, please join me in congratulating the featured vendors and category winners.

Maryam Akram, Research Principal

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2. Introducing the RiskTech AI 50

Research and ranking context

In its inaugural edition, the Chartis RiskTech AI ranking and research report explores the broad landscape of AI adoption in financial risk management. This comprehensive study offers both a panoramic view of the industry and a detailed examination of specific training techniques and machine learning (ML) architectures. Chartis adopts a pragmatic approach, assessing the current state of AI in risk management by identifying areas of maturity, promising growth and innovation. From emerging large language model (LLM)-based applications to established credit scoring and fraud-detection ML models, the report highlights the depth and diversity of AI applications in the field.

Chartis acknowledges that while some hype-driven generative AI (GenAI) use cases in financial risk management may not reach maturity, the deep learning methods and emerging infrastructure underpinning them represent crucial and lasting innovations. Over the years, advances in AI have significantly reshaped the technological and operational frameworks across various financial service business lines. Reflecting this transformative trend, data science teams have increasingly become integral to vendors and institutions.

Many revolutions

The proliferation of ML in risk management has evolved alongside other technological revolutions, such as the boom in Big Data and the rise of cloud computing and hyperscalers. The introduction of LLMs has further catalyzed this evolution by broadening access to ML models and driving demand for rapid hardware innovations. And new providers of cloud graphics processing units (GPUs) are introducing new market dynamics in the cloud computing space, alongside a renewed focus on high-performance computing (HPC).

LLMs are characterized by their scale and the GPU-based compute resources required to power them. Robust data infrastructures are necessary to support training and inferencing at scale. Retrieval-augmented generation (RAG) has rapidly evolved into the standard approach for vendors to leverage LLMs in their solutions and platforms. Within the ML industry, inferencing and performance optimizations are also evolving to support LLM performance.

Regulating AI

A critical factor influencing ML adoption in financial services is regulation. Because financial services is a highly regulated sector, varying levels of 'regulatory incidence' impact the application of AI in the industry. AI techniques that form a 'decisive' component of decision-making processes, as well as those requiring direct interaction with regulators, are often deemed higher-risk projects. The implementation of GenAI systems also complicates existing risk and policy issues, introducing new forms of cyber risk, third-party risk and the potential misuse of personal data.

Modeling, analytics and neural networks

The adoption of ML in certain areas is further affected by the dynamics of other modeling paradigms, of which the financial services host a diverse array (including statistical-based credit modeling and partial differential equation-based derivatives modeling). These paradigms often evolve within the specific contexts of business lines, risk areas and asset classes. Unlike traditional statistical models, neural networks balance accuracy and generalization without a theoretical or causal basis, creating challenges around explainability and conceptual acceptance. Despite these challenges, neural networks find numerous applications in finance, including optimization, anomaly detection, segmentation analysis and function approximation. However, cultural and conceptual barriers sometimes inhibit the adoption of new and converging modeling methodologies.

A wide spectrum

Finally, while the rise of LLMs is a cornerstone of AI development, the Chartis RiskTech AI report contextualizes their potential within the broader AI ecosystem, which encompasses both software and hardware infrastructure. The report and its research examine the wide spectrum of AI/ML techniques applied for pattern identification, classification and prediction, identifying areas of innovation and use cases with demonstrable return on investment (ROI).

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3. Vendor ranking and awards: overview

For this ranking and awards report, Chartis conducted a detailed analysis of vendors across the risk management landscape, assessing their capabilities and use of AI. Through this analysis, Chartis provides valuable insights into the market leaders and emerging players, guiding stakeholders as they navigate the complex and rapidly evolving field of AI-driven risk management.

Scoring criteria

The scoring criteria for the RiskTech AI ranking are based on four key areas: impact, deployment, strategy and innovation. These criteria are designed to focus on the application of AI itself rather than a solution's breadth of coverage.

- **Impact**. This measures the originality of an approach and its effect on a particular use case. While the approach doesn't need to be a 'new' ML technique, it should be applied in a way that has provided tangible benefits to the solution/system and its users or clients.
- **Deployment**. This criterion assesses the computational infrastructure and its alignment with ML workloads, as well as the specific methodological framework used. It evaluates how effectively the solution is deployed and its readiness to handle AI tasks.
- **Strategy**. This evaluates the effectiveness of a firm's strategy in utilizing various AI models and techniques. It also considers how well a firm leverages AI in relevant use cases.
- **Innovation**. This criterion is an overall measure of an organization's creativity and ingenuity in its AI model approach. It also assesses how innovative an organization is in developing, applying or integrating AI into its solutions.

Award categories

The award categories span various risk management areas and business lines, including:

- **Retail banking**. Behavioral modeling, credit scoring, customer segmentation and customer service.
- **Capital markets**. Trade and capital optimization, pricing, optimization and risk analytics.
- **Insurance**. Underwriting, claims management and customer service.
- **Governance, risk management and compliance (GRC)**. Regulatory intelligence, document summarization/search, process mining and controls management and compliance testing.
- **Financial crime**. Cybersecurity/cyber risk management, fraud detection, anti-money laundering (AML), client screening, case analytics, sanctions and transaction monitoring.

By identifying excellence across these categories, the Chartis RiskTech AI report not only ranks vendors but also sheds light on the specific contributions and advances they bring to different facets of financial risk management. This recognition also helps stakeholders understand the capabilities of leading vendors and the potential impact of emerging players in the industry.

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4. RiskTech AI 50 2024: ranking

2024 rank	Company
1	Oracle
2	MathWorks
3	Moody's
4	Feedzai
5	Wolters Kluwer
6	Hitachi
7	FIS
8	NICE Actimize
9	IBM
10	SS&C
11	Broadridge
12	MetricStream
13	TCS
14	Prometeia
15	SymphonyAI
16	Quantexa
17	HawkAI
18	Appian
19	Fenergo
20	Akur8
21	Global Valuation
22	ValidMind
23	Finastra
24	Riskfuel
25	ThetaRay

2024 rank	Company
26	Oxane Partners
27	Ripjar
28	BCT Digital
29	KPMG
30	Eastnets
31	Dasseti
32	Xapien
33	Complytek
34	CogNext
35	Evatech
36	Cognitive View
37	NetGuardians
38	Owlin
39	Opensee
40	GFT
41	Iguazio
42	MoCaX Intelligence
43	Solytics Partners
44	Facctum
45	WorkFusion
46	CleverChain
47	Decision Focus
48	Lucinity
49	smartKYC
50	CALPANA

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5. RiskTech AI 50 2024: category winners

Category award	2024 winner
Chartis awards	
Deployment	MathWorks
Impact	Oracle
Innovation	Oracle
Strategy	Moody's
Solution category awards	
Advanced tax fraud capabilities	Quantexa
AI-driven anti-fraud platform	Feedzai
AI-driven buy-side documentation management	Oxane Partners
AI-driven credit analytics	Moody's
AI-driven credit data enrichment	Moody's
AI-driven customer onboarding	Fenergo
AI-driven cyber risk management	IBM
AI-driven data management framework	Oracle
AI-driven document management framework	Oracle
AI-driven insurance risk analytics	Moody's
AI-driven insurance underwriting	Akur8
AI-driven IT risk analytics	TCS
AI-driven legal workflow	Zeidler
AI-driven pricing and valuation	Riskfuel
AI-driven process control and process mining	Appian
AI-driven regulatory intelligence	Wolters Kluwer
AI for audit risk management	MetricStream
AI for government applications	Quantexa
AI for workflow and automation	WorkFusion
Code generation and control	MathWorks

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Category award	2024 winner
Solution category awards	
Computational infrastructure for AI	Oracle
Cross-vertical GRC analytics	TCS
Financial crime investigation support and copilot	Xapien
Innovative use of AI for anomaly detection	HawkAI
Machine learning development environment	MathWorks
ModelOps	Iguazio
Model validation tools for AI	ValidMind
Operational risk dashboard and workflow	MetricStream
Unified research AI copilot	Moody's
Use of AI for climate risk analytics	Moody's
Use of AI for commercial banking-related workflow	FIS
Use of AI for compliance policy control and automation	CleverChain
Use of AI for customer service	NICE Actimize
Use of AI for energy analytics systems	Hitachi
Use of AI for energy portfolio management	Hitachi
Use of AI for finance and accounting	Oracle
Use of AI for institutional brokerage	Broadridge
Use of AI for markets-related workflow	SS&C
Use of AI for private banking and wealth management	NetGuardians
Use of AI for risk data	Opensee
Use of AI in AML and transaction monitoring	NICE Actimize
Use of AI in behavioral modeling	Prometeia
Use of AI in capital markets	Broadridge
Use of AI in communication and control	NICE Actimize
Use of AI in cross-industry applications	MathWorks
Use of AI in retail banking	Oracle

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6. RiskTech AI 50 2024: ones to watch

Ones to watch	2024 winner
	• AI Risk • Alertspeed • Cleareye.ai • Fineksus • Flagright • Focal • Kobalt Labs • Napier AI • Refine Intelligence • Stratyfy • Think360 • Zeidler

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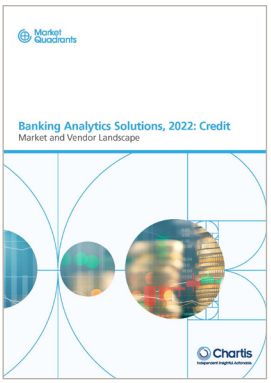
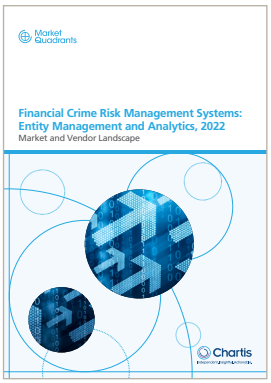
7. Further reading

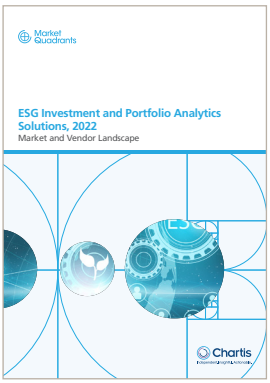
STORM 2023



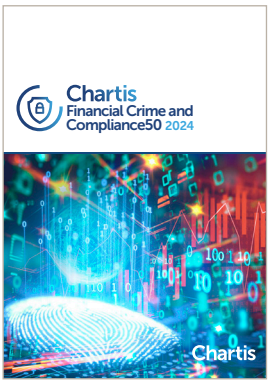
Banking Analytics Solutions, 2022: Credit; Market and Vendor Landscape



Financial Crime Risk Management Systems: Entity Management and Analytics, 2022; Market and Vendor Landscape



ESG Investment and Portfolio Analytics Solutions, 2022: Market and Vendor Landscape



FCC50 2024

RiskTech100 2024

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