

Global Agentic AI in Fraud Detection and Prevention Market to Hit \$38.28B by 2029, Growing at 49.0% CAGR

*The Business Research Company's
Agentic AI in Fraud Detection and
Prevention Global Market Report 2025 –
Market Size, Trends, And Global Forecast
2025-2034*

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Agentic Artificial Intelligence (AI) In Fraud Detection
And Prevention Global Market Report 2025

Exponential growth has characterized the [agentic artificial intelligence AI in fraud detection and prevention market](#) in recent years. The market is anticipated to grow from \$5.19 billion in 2024

to \$7.76 billion in 2025, with an impressive compound annual growth rate CAGR of 49.4%. Several factors contribute to this growth, including a rise in digital transactions, increasing cyber fraud cases, the adoption of machine learning in security measures, regulatory push for fraud prevention, and a growing reliance on online banking.

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Where Is The Agentic Artificial Intelligence AI In Fraud
Detection And Prevention Market Headed In The Future?
Looking further into the future, growth is only expected to

accelerate. By 2029, the market size is projected to reach \$38.28 billion, demonstrating a CAGR of 49.0%. Factors driving this forecasted growth encompass the expansion of real-time payment systems, the rising use of biometric authentication, amplified AI adoption in financial security, stricter compliance regulations, and an increasing penetration of digital wallets. Notable trends within the forecast period include advancements in deep learning algorithms, innovations in AI-driven fraud detection, continuous research and development in predictive analytics, the development of explainable AI models, and technological advancements in real-time transaction

monitoring.

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What is Propelling the Growth of the Agentic Artificial Intelligence AI in Fraud Detection and Prevention Market?

The rise in cashless payments and transactions stands as one of the formidable drivers of this market's growth. Cashless transactions utilize digital methods such as cards, mobile applications, or online platforms, eliminating the need for physical cash. The popularity of cashless transactions stems from their convenience and speed, enabling users to conduct quick, secure payments without the need for physical cash.

Agentic AI is proving instrumental in enhancing the security of cashless payments. Through continuous monitoring of transactions, it can swiftly detect real-time anomalies and respond proactively to fraudulent behavior, significantly reducing the risk of financial loss. This system also adapts to evolving fraud tactics, ensuring robust protection, thereby fostering trust in digital payment systems and encouraging wider adoption.

Who are the Key Players in the Agentic Artificial Intelligence AI In Fraud Detection And Prevention Market?

Prominent companies in the agentic artificial intelligence AI in fraud detection and prevention market include Dell Technologies Inc., Oracle Corporation, Salesforce Inc., Nvidia Corporation, Capgemini SE, BAE Systems plc, Global Payments Inc, Experian plc, Moody's Corporation, Equifax Inc., SAS Institute Inc., ACI Worldwide Inc., Fair Isaac Corp, Software AG, NICE Actimize, LeewayHertz, Inscribe AI, SEON Technologies Kft, Feedzai, and Sift.

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What are the Latest Developments in the Agentic Artificial Intelligence AI In Fraud Detection And Prevention Market?

Key players are focusing on developing advanced solutions, such as the scale-up of the financial crime-fighting arsenal, to improve real-time fraud detection, enhance accuracy, and significantly decrease false positives in financial transactions. The aforementioned arsenal is an amalgam of tools, technologies, and strategies, including advanced analytics, compliance frameworks, and regulatory measures, which aim to combat illicit financial activities.

How is the Agentic Artificial Intelligence AI In Fraud Detection And Prevention Market Segmented?

The agentic artificial intelligence AI in fraud detection and prevention market segmentation is as follows:

1 By Component: Solutions, Services

2 By Organization: Small And Medium-sized Enterprises, Large Enterprises

3 By Application: Identity Theft, Money Laundering, Payment Fraud, Other Applications

4 By Vertical: Banking, Financial Services And Insurance, Government And Defense, Healthcare, Information Technology And Telecom, Industrial and Manufacturing, Retail And E-Commerce, Other Verticals

Subsegments:

1 By Solutions: Fraud Analytics, Identity Verification, Transaction Monitoring, Behavioral Biometrics, Risk Scoring And Profiling, Case Management

2 By Services: Professional Services, Managed Services, Consulting Services, Support And Maintenance, System Integration

What are the Regional Insights Into the Agentic Artificial Intelligence AI In Fraud Detection And Prevention Market?

In 2024, North America was the largest region in the agentic artificial intelligence AI in fraud detection and prevention market. However, this report also delves into other significant regions such as Asia-Pacific, Western Europe, Eastern Europe, South America, the Middle East, and Africa.

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Americas +1 3156230293
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Oliver Guirdham
The Business Research Company
+44 20 7193 0708
info@tbrc.info

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