



DATASHEET

Transaction Fraud Monitoring

2-3x

Increased fraud detection

7.4%

Increased approvals

Using Mastercard's market-ready Brighterion AI, one global acquirer increased fraud detection 2-3 times and increased approvals by 7.4 percent.

KEY BENEFITS

- Increase rates of fraud detection and approvals
- Save time and money with fast and easy deployment
- Meet global compliance regulations
- Provide reasons for scores with innovative, explainable models
- Reduce losses by identifying fraud at the pre-authorization stage

Harness the power of Mastercard network intelligence to reduce fraud with market-ready AI

Consumers continue to drive demand for the convenience and immediacy of online and in-person, no-contact purchasing.

This surge in the online marketplace exposes many acquirers, payment processors, payment facilitators and merchants to the risk of greater financial loss. Market-ready AI solves that problem with solutions that can begin deployment immediately.

The most efficient and effective way to fight transaction-level fraud

Mastercard's Transaction Fraud Monitoring solution is revolutionizing fraud detection. Built and trained with intelligence derived from Mastercard's anonymized and aggregated transaction data*, the Brighterion AI and machine learning model is production-ready out of the box and customers can begin deployment right away. The model takes as few as 30 data elements to initialize, creating a lighter lift and faster time to value than other solutions.

With Mastercard's global network of 210 countries and territories, the breadth of transaction data is vast. Businesses benefit from models trained to learn patterns and anomalies from anywhere in the world Mastercard does business.

Global transaction intelligence brings knowledge from the broader market to deliver fewer false positives and higher fraud detection rates. Pre-trained AI models don't have to refer to network data during transactions to score events. This enables the cloud-native platform to deliver a remarkably low latency of 100-120 ms and less than 10 ms when deployed on-premises.

Organizations can reduce financial risk and save money by detecting fraud earlier in the payment flow. Transaction Fraud Monitoring intercepts at the pre-authorization stage, identifying fraud before it hits issuer or network defenses. Because the solution is trained on the most sophisticated fraud attempts from around the world, protection and accuracy are high.

* All Mastercard transaction data has been aggregated and anonymized when used to build Mastercard's AI and ML models.

10ms

Low latency of 10 ms

30

As few as 30 data elements required



KEY FEATURES

- Mastercard-hosted AWS cloud provides fast, reliable connectivity and rapid deployment
- Full stack, state-of-the-art machine learning toolkit allows for off-the-shelf models that are production-ready today
- Configurable Rules Management, Case Management, and Business Insights modules
- Lightning fast response times and resiliency of 100-120 ms (cloud) and 10 ms (on premise)
- Unrivalled scalability, processing 150b transactions a year
- Industry-leading data responsibility practice, embedded human-centered data innovation and product design principles

Easy deployment in three simple steps

As many solutions take months or years to build, test and deploy, the payments industry and merchants are at risk of unprecedented financial losses. Mastercard has eliminated that waiting period with proven market-ready Transaction Fraud Monitoring that deploys out of the box.

The first step is to integrate the organization's data while customizing the API to meet client needs. Because the model has been trained with Mastercard network data, no further training is required. Just a minimal amount of data is needed – as few as 30 data elements – to initialize the model. The model is then ready to identify anomalous patterns and begin scoring.

Transaction Fraud Monitoring scores the data throughout the initialization period. The Mastercard team then works with the organization to achieve the desired results, balancing fraud detection with optimal customer experience.

How it works



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