SUCCESS STORY

Cash transaction control system for a regional financial institution

A predictive risk model for anti-money-laundering prevention and automated regulatory compliance.

Industry: Banking

*Image for illustrative purposes only

Summary

In 2026, a cash transaction control system was implemented as part of a regulatory process, aiming to strengthen anti-money-laundering prevention and comply with state regulatory requirements.

Key challenges

- Cash transactions require strict preventive controls to avoid money-laundering risks.
- Manual review generated high operating costs and limited responsiveness during audits.

Approach / Solution

A predictive model was designed to assess the risk of each transaction.	Compliance rules and transactional behavior parameters were integrated.
The system was connected to external platforms to strengthen regulatory validation.	

Results

- In audits, the system makes it possible to quickly identify whether a transaction shows a fraudulent pattern.
- Integration with external systems facilitates timely responses to national financial system regulators.
- Significant savings in operational time were achieved by streamlining the review of transaction alerts.

Technologies used

- SQL Server
- Python
- Microsoft Integration Services
- .NET Core components
- Agile Scrum methodology (project management)

Conclusion

The implemented solution enables more efficient preventive and corrective controls, strengthening anti-money-laundering prevention and ensuring regulatory compliance within the financial system.

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