

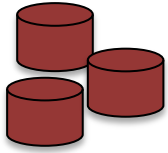
# eXplainable AI for **Risk Management and Fraud Detection**

eXplainable AI (XAI) grants deeper insights in the complex interaction in portfolios and among fraudsters.

XAI tells you the why as it explains the signals found and decisions recommended.

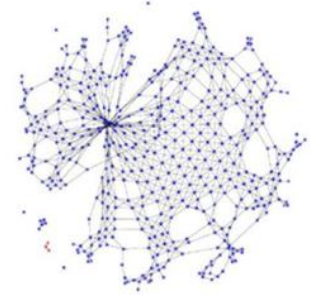
XAI enhances your risk management and fraud detection systems.

## WORKFLOW

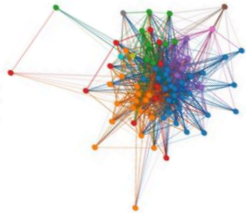


Your Data

Creation of a complex mapping of data to better reveal complex patterns



Intelligent systems learn from data mappings and present results in an explainable way with **XAI**



**XAI**-based decision making

Evaluated and justified translations into use cases:

- Advanced Risk Analytics
- Fraud Detection
- Know Your Customer (KYC)
- Anti Money Laundering (AML)

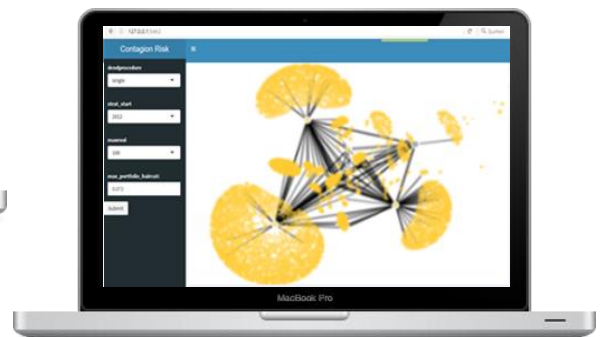
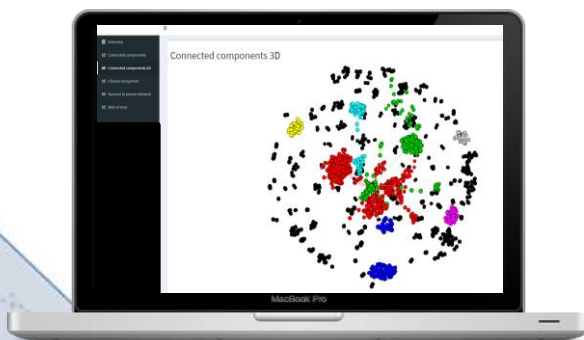
## CLIENT USE CASE

### Credit Portfolio Management

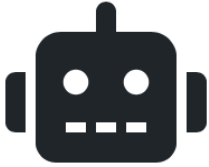
Based on ratings data of a large loan portfolio we utilise our software to reveal similarity representations and correlation network effects in the portfolio. Thereby risk concentrations can be identified and the portfolio can be segmented in a more effective way. This allows to manage portfolio risk on top of the traditional risk management techniques.

### Fraud Detection

The analysis is extended by payment data and other relations. A network effect could be revealed that is directly connected to advanced fraud patterns and collusive cliques. This enables a transparent system for reliable detection of complex fraud patterns that can be explained.



## XAI IN A NUTSHELL



Nature-inspired, scientific AI for complex data processing



Reduction of false positives and new data insights



SaaS with APIs for integration into your processes and digital platforms



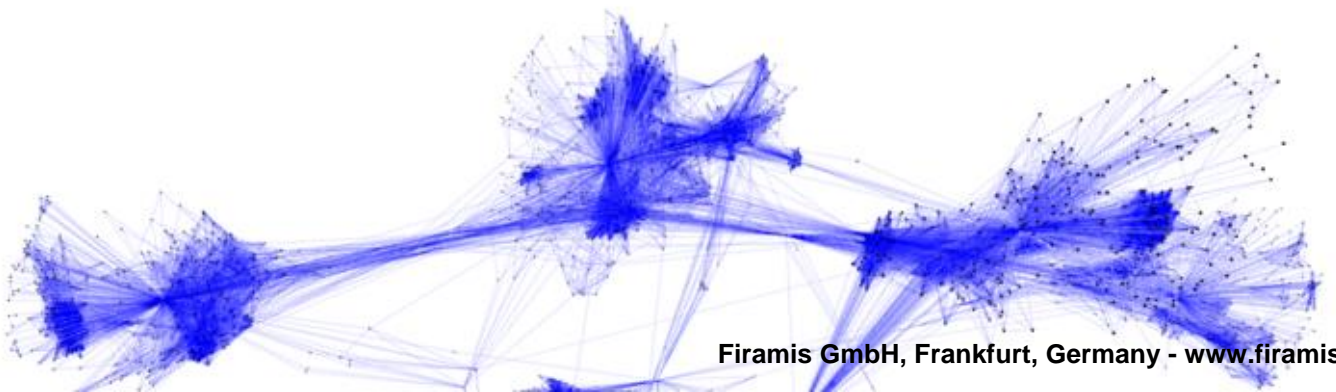
Visualisation algorithms to explain the machine's reasoning



Dashboards with advanced analytics and diagnostics



Already addresses future regulation and supervision of AI



## ABOUT US

Firamis is a B2B FinTech company, building software applications powered by AI and Data Science for financial service companies in InvestTech, RiskTech, RegTech and SupTech since 2012.

Firamis is research-driven and specialised on supporting quantitative risk management and fraud detection processes empowered by machine learning, financial data science and visualisation of complex information.

Our clients are asset managers, banks, insurance companies and other financial institutions. As a partner of numerous European universities and Fintechs we are supported by the European Commission through the FIN-TECH Horizon2020 project (<https://www.fintech-ho2020.eu>).

We are located in Frankfurt, the heart of Europe's Fintech landscape. As an ecosystem shaper we regularly organise meetups and events such as the Frankfurt Summit on AI, Big Data and Network analysis in Financial Services (<https://ai-bigdata.network>). Firamis is also founding member of the association AI in Financial Services (<https://www.aiinfs.com>).

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