

Title: The Evolution of Fraud Detection – From Rule-based Systems to Quantum Advantage

The fight against financial fraud has evolved significantly over the past decades. From traditional rule-based systems to modern AI-powered platforms, the fraud prevention software industry has continuously adapted to the increasing sophistication of financial crime. Today, advanced machine learning models monitor vast volumes of transactional data in real time, enabling institutions to detect and respond to anomalies with unprecedented accuracy.

Looking ahead, the integration of quantum computing into fraud detection frameworks is poised to redefine industry best practices. Quantum algorithms offer the potential to accelerate complex anomaly detection, optimize pattern recognition across high-dimensional datasets, and enhance simulation capabilities for risk modeling. This talk will explore how quantum computing can augment existing AI systems, improve detection precision, reduce false-positives and ultimately empower financial institutions to stay ahead in an increasingly complex threat landscape.