

Q2 Uses Protopia AI to Create New Privacy-Preserving Fraud Detection Product

Protection During Real-time AI deployment

Check fraud makes up **47% of losses** for Financial Institutions (FI). FI clients can be reluctant to send check images that contain sensitive information to fraud detection application providers. Global financial technology company, Q2 needed a solution in which FIs could safely and confidently share data using Q2's latest fraud detection products **Sentinel™** without needing to expose their raw check images.

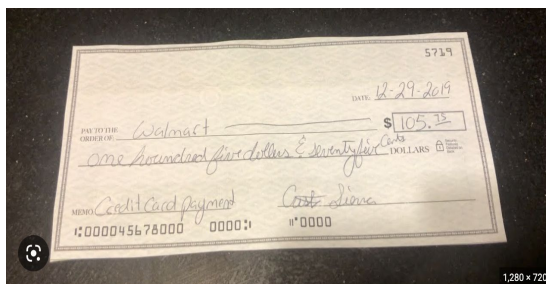
Q2 faced two problems:

- Banks and FI's can better fight fraud if they can share check but are restricted by internal protocols
- To deliver new state-of-the-art product, Q2 needed access to more data from different FIs but could not due to data restrictions

Solution for Q2: Stained Glass Transform™

Transform check image data to match intent of model consuming it

Q2 Check images with personal information



Randomized Re-Representation only provides data for fraud detection in unidentifiable form



~ 99% accuracy

Minimal information exposure

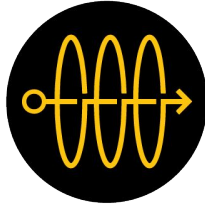
Protopia AI's Approach to Privacy-Preserving ML Deployment

Q2 used Protopia AI's **Stained Glass Transform (SGT)** for check fraud detection, allowing their computer vision models to function accurately without needing clients to share raw data, such as check images. SGT learns the requirements of Q2's fraud detection model, enabling Q2 to eliminate unnecessary information and create **Randomized Re-Representations** of all other features while maintaining near-perfect accuracy.

OUTCOME

- Q2 implemented SGT in days vs. months compared to other privacy-enhancing technologies.
- Q2 expanded access to previously unapproachable FI customers to create new fraud prevention product: Sentinel to drive revenue
- FIs can catch more fraud with Sentinel using models trained on aggregated data from Q2's network of FIs.

Customers Use Protopia's Stained Glass™ Technology to:



Unlock Privacy Frictions

Access previously unreachable data



Enhance Partnerships

Send data to AI and LLM vendors confidently

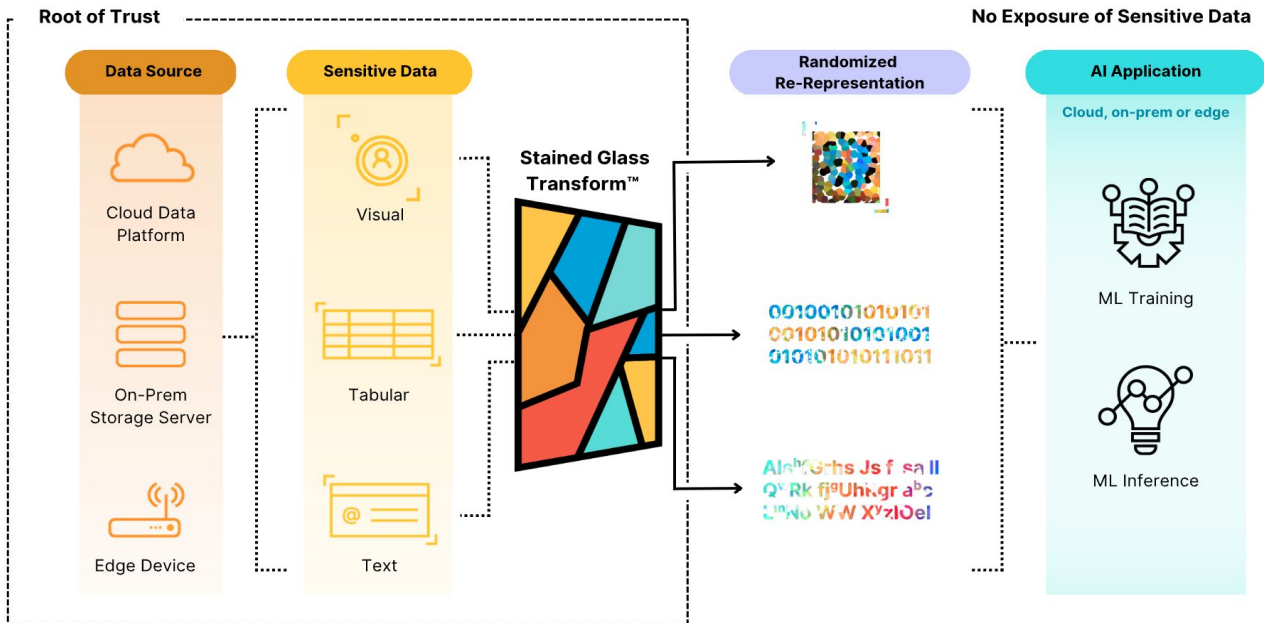


Protect ML at Every Stage

Transform data during model training and deployment

See How Stained Glass Can Achieve Your ML Goals

Transform any data type for ML Training or Inference



Talk to an Expert

Protopia AI is the only privacy layer that accesses visual, text or tabular data, and can be applied throughout the ML lifecycle. No other solution provides this level of access and protection [Get started!](#)

Email us at info@protopia.ai or visit www.protopia.ai

