

US Navy Solves for Privacy in AI Facial Recognition Inferencing

Protection During Real-time AI deployment

Protopia AI partnered with Netapp to help the US Navy secure their AI facial recognition technology of VIPs for the Trident Warrior Exercise. Without a protection layer, the Navy's video feed compromises the identities of VIPs and personnel. The Navy aimed to detect VIPs without exposing identifiable information in the video.

The US Navy faced two problems:

- The Navy wanted to detect VIPs without showing their unprotected images.
- Current solutions fail to protect video feed during AI deployment or have long delays

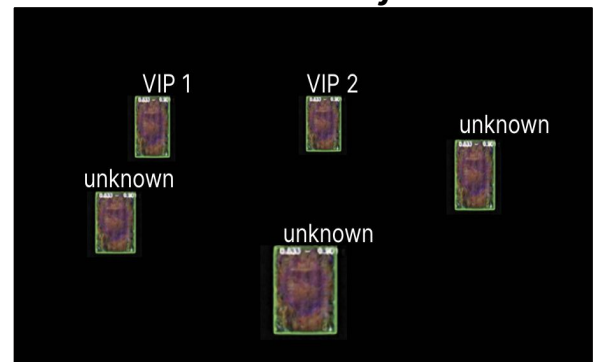
Solution for the US Navy: Stained Glass Transform™

Transform data to match intent of model consuming it

Live Detection of VIPs



AI Recognition on **only necessary traits to identify VIPs**



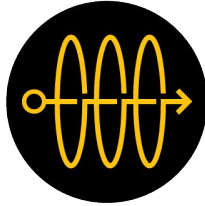
Protopia AI's Approach to Real-time Privacy in AI Deployment

In order to protect the video feed and identify VIPs without exposing images, Stained Glass learned the facial recognition model's requirements, creating a unique one-way **Randomized Re-Representation**. The patented solution transforms subjects' faces so that it is only readable by the facial recognition model with near-perfect accuracy to identify VIPs, and unidentifiable by another person or machine.. The use case showcased Stained Glass' ability to protect real-time AI deployment successfully. **Above shows unprotected feed on left, and feed after transformation on right.**

OUTCOME

- Stained Glass successfully protected the video feed to identify VIPs
- Transformation ran at the same frame as the real-time recognition without any interference
- Stained Glass effectively provided protection during AI deployment with near-perfect accuracy.

Customers Use Protopia's Stained Glass™ Technology to:



Unlock Privacy Frictions

Access previously unreachable data



Enhance Partnerships

Send data to AI SaaS and LLM vendors confidently

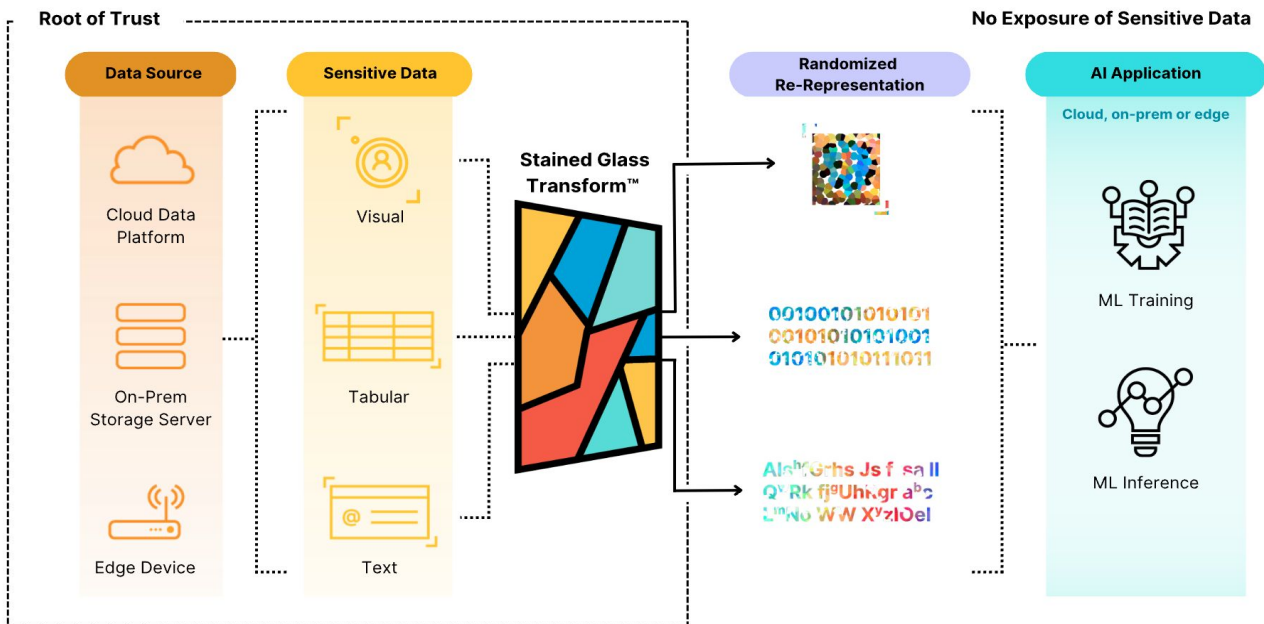


Protect ML at Every Stage

Transform data during model training and deployment

See How Stained Glass Can Achieve Your ML Goals

Transform to 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

