

VERILYST - EXECUTIVE SUMMARY

Trusted Verification for Human-Centered Care

Real-Time Coordination, Tracking, and Compliance You Can Count On

Overview

Verilyst, developed by **Black Women in Artificial Intelligence (BWIAI)**, is an enterprise-grade verification and accountability platform for home- and community-based healthcare. It uses AI-powered photo validation, GPS metadata, and secure timestamping to verify that every caregiving task, medication delivery, mobility support, wellness checks is completed correctly, ethically, and on time.

Purpose

Healthcare agencies face rising compliance demands and staff-shortage pressures. Verilyst closes the gap between human care and digital oversight, giving supervisors proof of service while protecting patient privacy and caregiver dignity.

Core Features

- **Multimodal Verification** – integrates image, location, and time data for verifiable proof of care.
- **Human-in-the-Loop Oversight** – AI supports, never replaces, professional judgment.
- **Real-Time Alerts and Escalations** – configurable notifications for due, completed, missed, or flagged tasks.
- **Privacy-by-Design Architecture** – local encryption, anonymization, and HIPAA-aligned data handling.
- **Compliance Dashboard** – visualizes verified activity, exceptions, and audit-ready reports.

Innovation & Differentiation

Verilyst redefines what it means to verify care. Existing systems capture attendance; Verilyst verifies **care integrity** through ethical, accessible, and explainable AI.

Dimension	Conventional Approach	Verilyst
Verification Scope	Basic time + location	Multimodal AI verification (photo, QR, GPS snapshot, signature, checklist)
Privacy Approach	Continuous tracking	Privacy-by-design: snapshot GPS, non-identifiable media
Human-Centered AI	Manual entry	Explainable AI with human review
Accessibility & Disability Inclusion	Limited options	Voice confirmation, proxy sign-off, device logs; WCAG 2.2 compliant interface
Ethical Oversight	Administrative focus	Fairness, transparency, bias audits
Data Ownership	Vendor retained	Organization retains; encrypted deletion post-upload
Insight Generation	Static reports	Quality and equity analytics
Integration	Closed ecosystems	Open REST API for EHR & IoT devices
User Impact	Supervisory	Empowering and trust-building

Accessibility and Disability Inclusion Policy

Verilyst is inclusive by design.

When a patient or caregiver cannot sign or scan due to disability or limitation, the system enables verified alternatives such as voice confirmation, proxy acknowledgment, or automated device-level logs. All accessible methods are equally valid and audit-ready.

The interface complies with **WCAG 2.2**, supporting screen readers, keyboard navigation, voice-to-text, large-text, and high-contrast modes. No care event or participant is ever excluded due to ability or environment.

Benefits for Healthcare Providers

- Strengthens accountability across distributed caregiving teams.
- Reduces compliance risk through automated documentation.
- Provides families and supervisors with transparent proof of service.
- Improves workforce safety and response time through proactive alerts.

Technology Foundation

Built on **NVIDIA Clara Guardian** and **NVIDIA Holoscan** infrastructure, Verilyst delivers real-time inference at the edge or in the cloud with minimal latency.

Its modular API integrates seamlessly with existing EMR/EHR and scheduling software.

Deployment and Support

Available globally as a secure, cloud-hosted or on-premise SaaS solution. BWIAI provides implementation guidance, data-privacy consultation, and continuous model improvement services.

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