



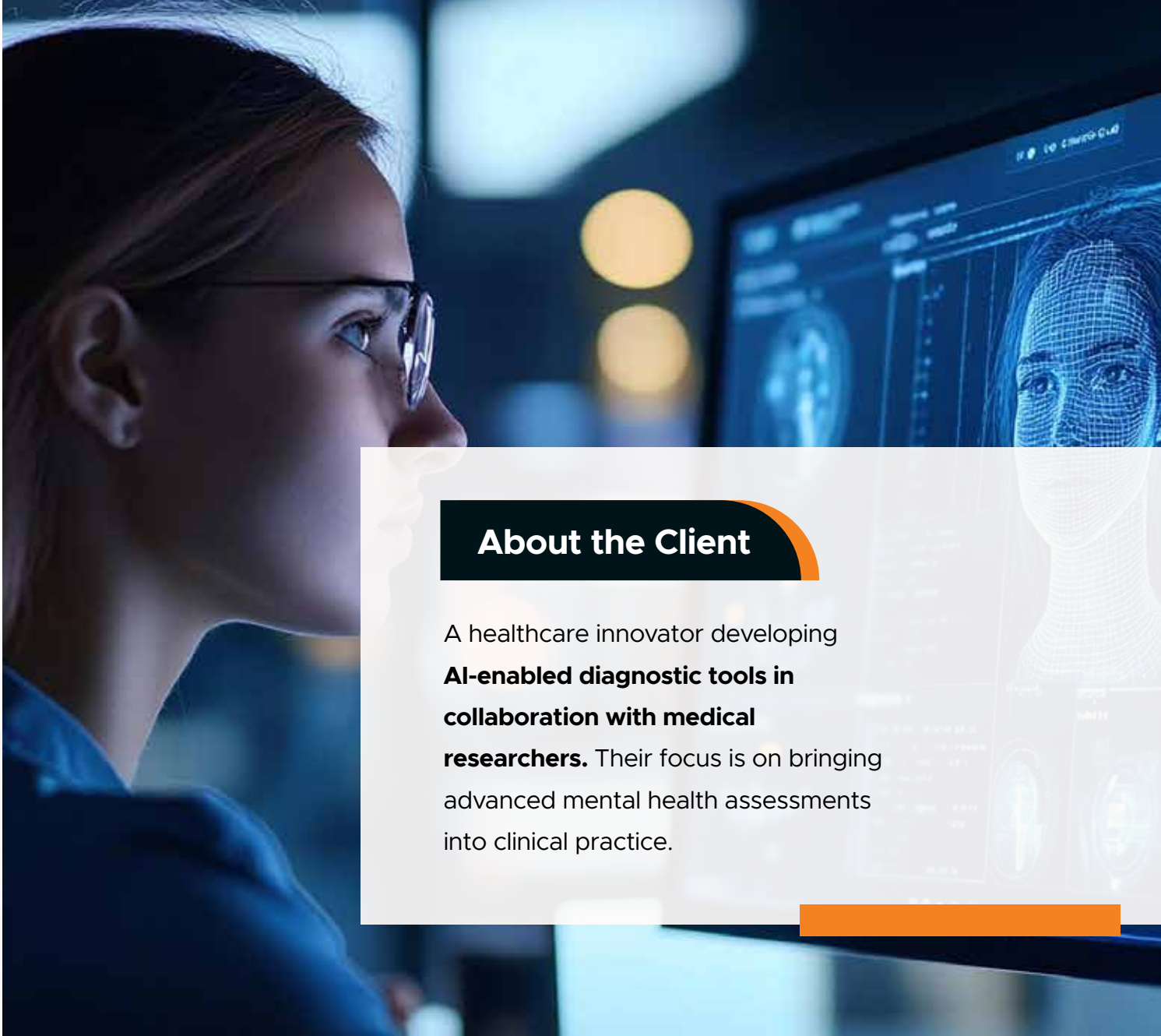
A Netsmartz Company

AI Smartz

AI First Culture

Leading US-Based Healthcare Provider Leverages AISmartz to Develop Facial Analysis Software for PTSD and TBI Detection





About the Client

A healthcare innovator developing **AI-enabled diagnostic tools in collaboration with medical researchers**. Their focus is on bringing advanced mental health assessments into clinical practice.

The Need

The client needed a **scalable, patient-facing** system to detect signs of Post-Traumatic Stress Disorder (PTSD) and **Traumatic Brain Injury (TBI) from facial images**. The challenge was to **encode complex diagnostic models into a fast, user-friendly** app while ensuring data security and compliance.





Our Solution

We built a secure **web/mobile platform using advanced computer vision and image-analysis models. Clinicians can upload a patient's facial photograph**; behind the scenes, the system applies deep-learning classifiers to assess PTSD and TBI symptom severity. A centralized **dashboard provides instant, graded diagnostic feedback, and the architecture** is designed for high scalability and regulatory compliance.



Outcomes Achieved

The tool now enables early **detection of PTSD and TBI via AI-powered facial analysis. This streamlines patient assessments** by automating what was previously a subjective process. Providers receive immediate, objective reports and can track patients' progress over time. **The platform's secure, mobile-friendly design ensures it can evolve with new clinical research and AI advances.**

WHY AISmartz



50+ AI frameworks and toolsets across industries



200 + AI-Certified Engineers



AI-first approach to accelerate automation, insights, and scalability



Proven AI solutions powering SaaS, SMBs, and enterprise digital transformation

About AISmartz

AISmartz is a dedicated AI solutions company helping organizations harness the power of **Artificial Intelligence, Data Science, and Machine Learning** to innovate and scale smarter. Our expertise spans **AI strategy, model development, MLOps, and responsible AI adoption**, enabling businesses to achieve process optimization, predictive insights, automation, and decision intelligence. With a team of AI specialists and engineers, we deliver scalable, outcome-driven solutions that transform operations across industries.



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