

# EyeTrackAI for Autism: Eye Gaze Analysis & Screening Platform

Principal Investigator: Professor Wan Yee Winnie Tso

## Technology

- **AI-powered** eye-tracking software for ASD symptom monitoring
- YOLO Segmentation model for **face detection**
- k-Nearest Neighbors model for **eye movement analysis**
- Catboost for **Childhood Autism Rating Scale scores prediction**

## Stage of Development

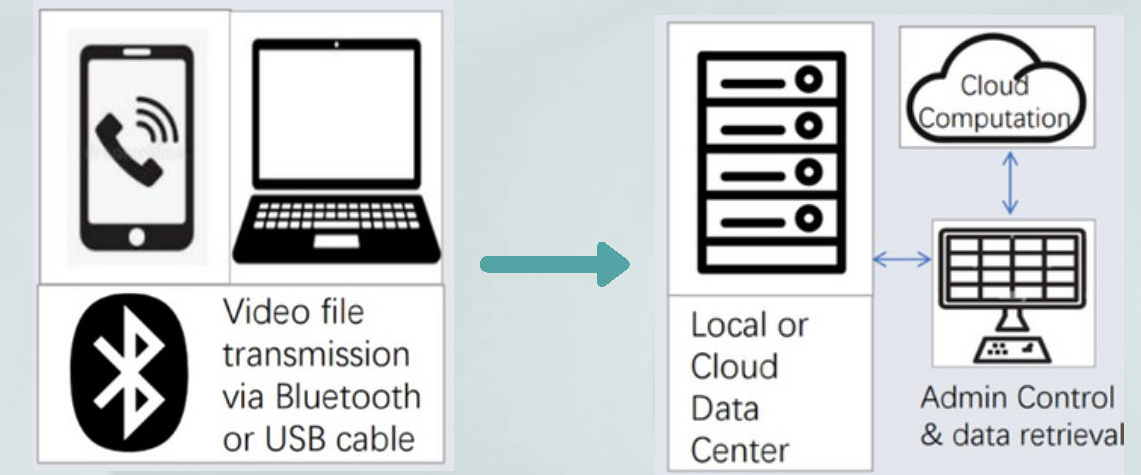
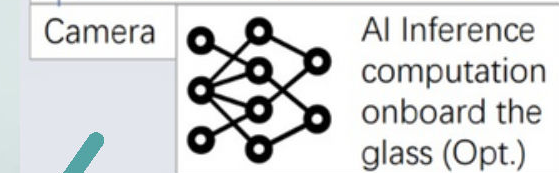
- **2025 Q1:** AI model training
- **2025 Q4:** Eye-tracking software testing
- **2026 Q1:** Test trials at DKCH & BGCA
- **2026 Q4:** Introduction to clinicians

## Key Advantages

- **Accessible, economical solution** for real-world social-gaze assessment in children
- Facilitate **early and more accurate ASD detection**

## Opportunities

- Benefit **thousands of children awaiting ASD rehabilitation** annually in HK and the GBA
- Reduce **health and economic burden** of the society in the long run



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