Augmentation for Behavioral Health Analysis

By: Intouch Health and Interlinked: Brian Lim, Gehrig Weber, Diego Perez, Felix Zhao, Michael Zhou
Problem

- Mental health a fast growing field
- Handle huge demand for mental health services
- Support health providers with tools for analyzing behavioral/mental health
- Need extra data and information to assist providers
Solution

- Develop a video calling web application for communication
- Using patient’s video and audio as input into sentiment analysis
- Allow providers to see outputs of sentiment analysis
Details

- React and TypeScript frontend
- Gin GoLang backend to provide RESTful endpoints
- MongoDB to store account and session information/analytics
- WebRTC for audio/video communication between clients
- Various machine learning models for diverse analytics (face, speech, etc.)
What’s Next

1. Flesh out account information
2. Gather aggregate information about past sessions, potentially reprocessing video
3. Improve visuals of data analytics
4. Improve security
5. Refine peer to peer communications
Thank you!