

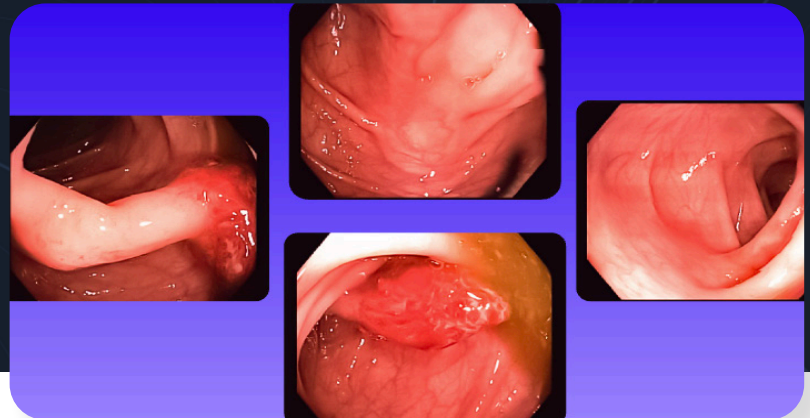
## CASE STUDY

# Advancing AI for GI



Centaur  
Labs

How Satisfai Health leverages large colonoscopy video datasets to build cutting-edge AI



## Overview

Satisfai Health is a leading precision GI company whose AI-powered platform equips GI doctors with tools to enhance the quality, speed, and affordability of the detection, diagnosis, assessment and treatment of GI disease. Their four AI products are approved for investigational use by GI physicians in clinical practice, as well as by pharmaceutical companies and CROs.

## Challenge

- Wanted to label hundreds of thousands of clips and frames from colonoscopy datasets.
- Unscalable annotation system - 2 GI experts - including founder - labeling datasets by hand
- Needed scalable long term solution. Will have access to orders of magnitude more data over time from clinical partner

## Solution

- Classified 10K colonoscopy videos in a series of 3 tasks to evaluate scorability. 24K labels total
- Rate of **4K labels/day, avg of 10-16 qualified opinions per label**. Interrater agreement 85-95%.
- Classified 42K videos, in a series of 4 tasks re: severity of Ulcerative Colitis. 168K total labels
- Rate of **7K labels/day, each with avg of 8-10 qualified opinions per label**.

## Impact

- 8 Model **cleared internal quality threshold** - Certain now available for investigational use.
- 8 Accelerated AI projects **by months to years** by scaling high quality data labeling
- 8 **Saved time** for Clinical Operations and AI team by reducing management burden of labeling

*When just one person labels your data, it's very subjective. But when you have the Centaur Labs network, you can see the quality. **Getting 10+ opinions makes a big difference in terms of accuracy, quality and consistency.** You can be more confident relying on the labels.*



**Jennifer Nam**

Clinical Operations Lead