Olive

Olive: Mitou - Solve

Who We Are

Olive

We "Sense" You

- Interpret emotion from biodata (heart rate, respiration rate, etc)
- Enhance user (customer) experience using Emotion Al
- Olive tech lets products "sense" and "sympathize" with users

Technological Expertise

- Biodata-based emotion recognition
- Computer vision, wearables
- Forecasting, activity recognition

Partners and Sectors

- Partners: Mitsubishi, Fujitsu, Toshiba, etc.
- Sectors: education, telemedicine, tourism, mobility, office, shopping

Our Members

- 50% international staff (55% of engineering team)
- Primary language: English
- International students, and internationally-minded students welcome!
 - Your English does not need to be perfect, but you must be comfortable working in English!



Biodata

Challenge 1: Face-Down Detection System

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Issue: Detecting Downward Faces in Al Education Systems

- Young students often lower their heads, making facial detection difficult
 - → Without face data, the system lacks critical input

Solution: Face-Down Detection System

- Ensures student presence is captured when face is down
 - → Use top-of-head landmarks (nose, ears) for detection and inference?

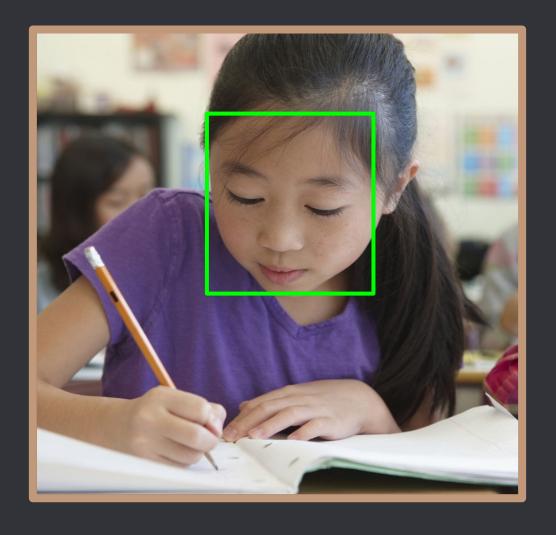
Target Users

- Education Sector. Mainly classrooms, but also self study situations
 - → This means various different sensing environments

Technical Specs

- Real-time operation on: Raspberry Pi, Chromebook, and Windows
- Utilizing Python

Message from Engineering Team: "This issue affects the essential input stage of our pipeline. The right solution can greatly improve our educational Al products. Let's solve this together!"



Face-up: successful detection



Face-down: no detection

Challenge 2: Privacy-Preserving Tracking System

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Issue: Recognising Repeat Customers While Preserving Anonymity

- Want to know if shoppers are repeat shoppers, or if they are actually staff
- Need to do this while preserving people's' privacy

Solution: Privacy-Preserving Tracking System

- Obtain enough information to track people in shop, but must preserve privacy
- We need ID, and details like age and gender
 - → How to obtain and store enough information, while preserving privacy?

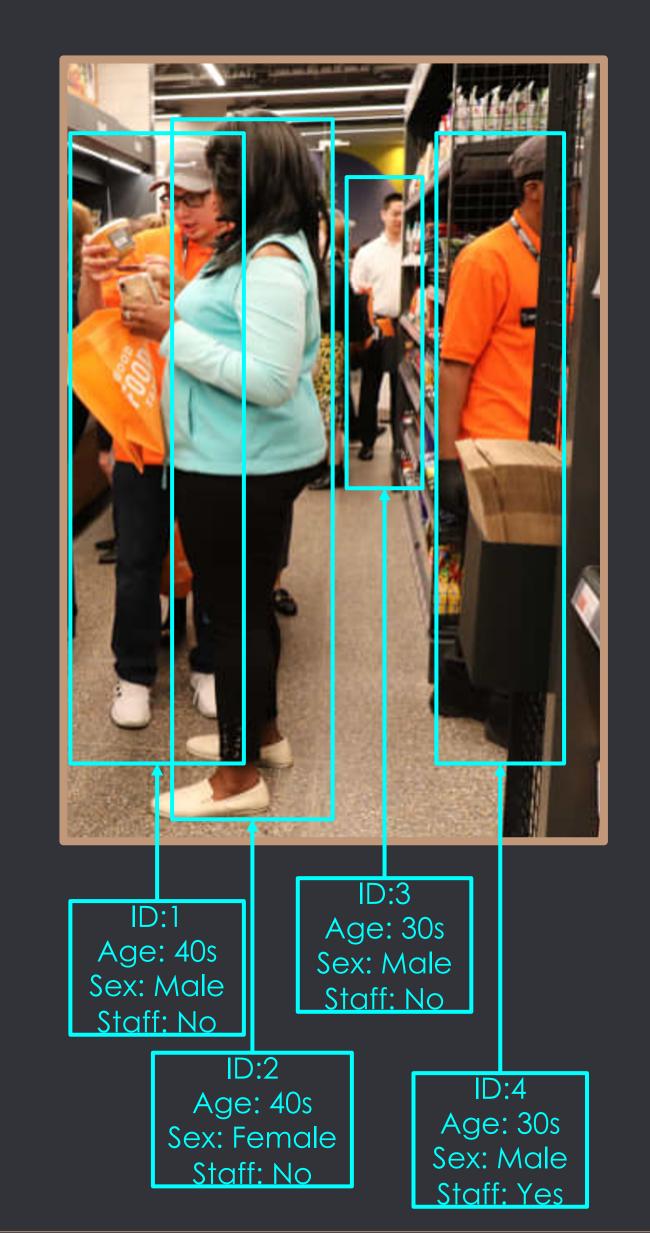
Target Users

- Shopping
 - → This means various different sensing environments

Technical Specs

- Real-time operation on various devices: Raspberry Pi, Windows, and Mac
- Utilizing Python

Message from Engineering Team: "This is a current issue, and implementing it correctly will have a direct impact on our existing deployed systems. This is a great opportunity to work on a live, pressing problem!"



Challenge 3: Purchase Intention Predictor

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Issue: Limited Number of Sales Staff Makes Sales Difficult

- There are often situations where there are many customers in a shop
- How do sales assistants focus their efforts to optimise sales?

Solution: Purchase Intention Predictor

- Can we determine which customers are most likely to buy something?
 - → 100% accuracy not required, even a small amount of info is useful!

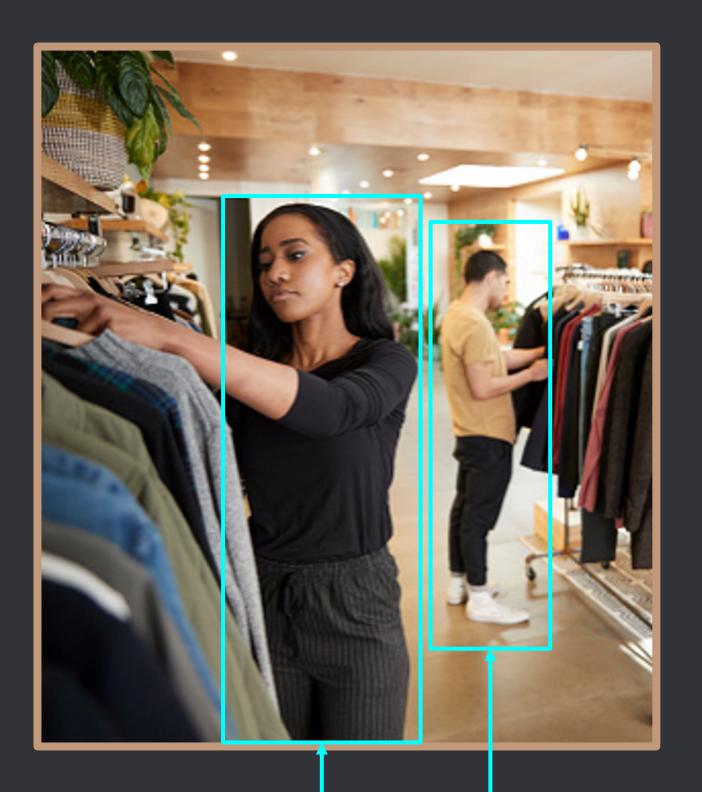
Target Users

- Shopping
 - → This means various different sensing environments

Technical Specs

- Real-time operation on: Raspberry Pi, Chromebook, and Windows
- Utilizing Python

Message from Engineering Team: "This is a completely open challenge. Feel free to come up with a suitable scope, approach, and solution. We want to hear your ideas!



Most Likely to Purchase

Least Likely to Purchase

Contact

Olive

Website

https://www.01ive.co.jp/

My Email

billy-dawton@01ive.co.jp

Please feel free to ask any questions, we are looking forward to working with you!