

Reducing Food Waste with Computer Vision in 24 hours



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1. Motivation

- Companies, universities, and public organizations have a lot of **aperos** or **lunches** that most often ends with leftovers. By sharing this information with others we can reduce food waste by redistributing those leftovers.
- In our **interconnected world**, it is crucial to keep **control of our data**. Hence, by ensuring a privacy-by-design system we would guarantee more protection for users' data, especially their visual face identity.

2. Idea & implementation

- Leverage IBM's **general** and **food classifier** to detect food in the cloud.
- Use **OpenCV** on a **local device** to do **data-minimization** and **data preserving preprocessing** before sending information offsite.
- Use a **voice controlled assistant** to interact with and query about food availability.

System Overview

