

FridgePI

A smart fridge for lazy people

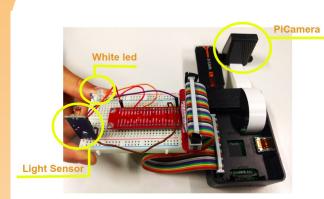
25/05/18 Mobile and Cyber-Physical System

Alessandro Fagnani, Federico Rossetto & Silvia Severini

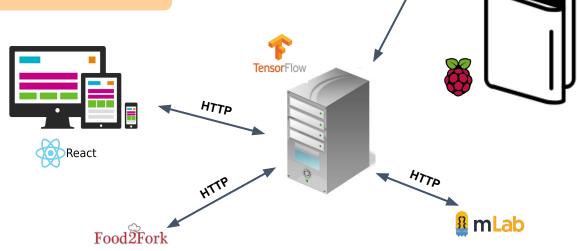
What's in my fridge? What can I eat for dinner?

A fully automated monitoring system for your fridge

- No overhead for you
- Always available everywhere
- Always up-to-date
- A good recipes advisor
- A lot of possible extension







Use cases:

1) Feeds your needs and it's always available





2) Semantic segmentation, image recognition and a good advisor

3) Installation

- 1. Plug in
- 2. Push WPS button
- 3. Add it to your devices list

4. That's all folks!



Image recognition



Generated list:

- 'beans': 0.7679 - 'corn': 0.6079

- 'tomato sauce': 0.4357

- 'nuts': 0.5579

Future work

Hardware view:

- more cameras in one shelf
- use a magnetic sensor instead of the light one

Software view:

- integration with google, amazon shopping
- management of a shared list of products
- shopping advisor
- give more info on the products (ex. expiration date)