

Microwave oven which recognize the food ingredients

SCOPE

- Vegetable recognition engine
- Ingredients recognition engine (chopped/mixed vegetables)
- Drink recognition
- Test environment setup inline with end product environment

CHALLENGES

- Image pre-processing to make it suitable for specific local market requirements
- Visibility issue, poor lighting, camera position
- Porting and optimization for embedded platform
- Custom Architecture development

TOOLS AND TECHNOLOGIES

- TensorFlow
- Custom designed network

Custom AI network

Engineering



USING DEEP LEARNING TO
ENHANCE COOKING EXPERIENCE

AI engine Accuracy

95% for all AI modules
16 recipes recognized

Market

Japan

Benefit

Easy operation
Reduced cooking time

Delivery Model

ODC

Product phase

In R&D