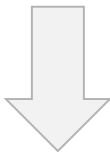

AI-Starter Overview

Denaripam Corporation

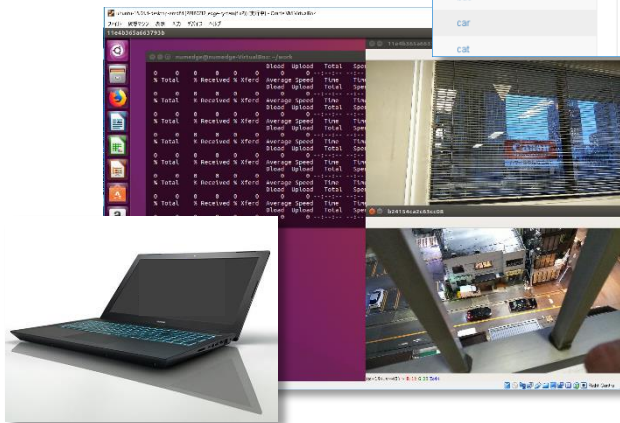
- 1. [AI starter] is an AI kit that was designed with a smartphone and game pc**
- 2. Using the application, link the smartphone as a sensor device with the game PC**
- 3. AI The recognition result can be viewed and managed externally by a browser etc.**

System-wide configuration

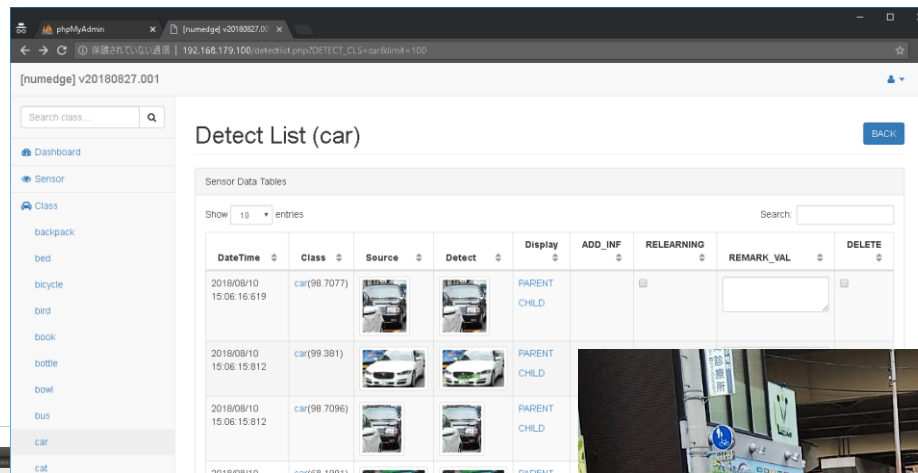
DataCollect



AIRecognize

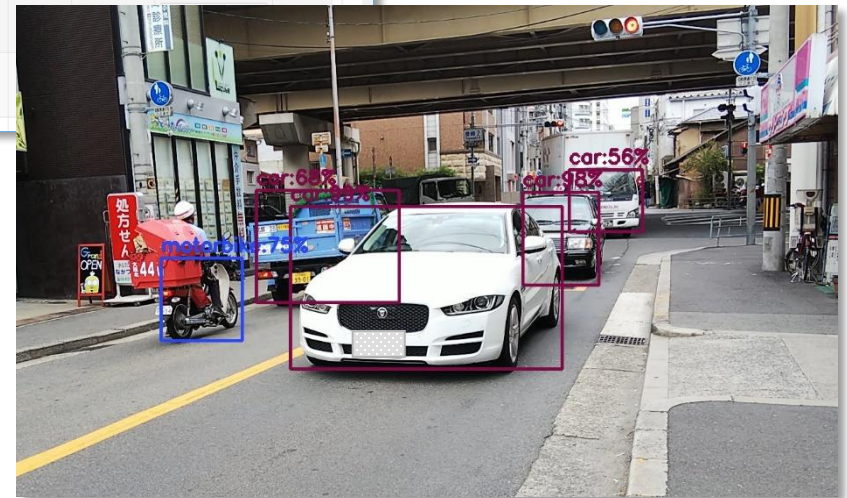


Recognition Information



DateTime	Class	Source	Detect	Display	ADD_INF	RELEARNING	REMARK_VAL	DELETE
2018/08/10 15:06:16.619	car(98.7077)			PARENT CHILD		<input type="checkbox"/>		<input type="checkbox"/>
2018/08/10 15:06:15.812	car(99.381)			PARENT CHILD		<input type="checkbox"/>		<input type="checkbox"/>
2018/08/10 15:06:15.812	car(98.7096)			PARENT CHILD		<input type="checkbox"/>		<input type="checkbox"/>
2018/08/10 15:06:15.812	car(98.1931)			PARENT CHILD		<input type="checkbox"/>		<input type="checkbox"/>

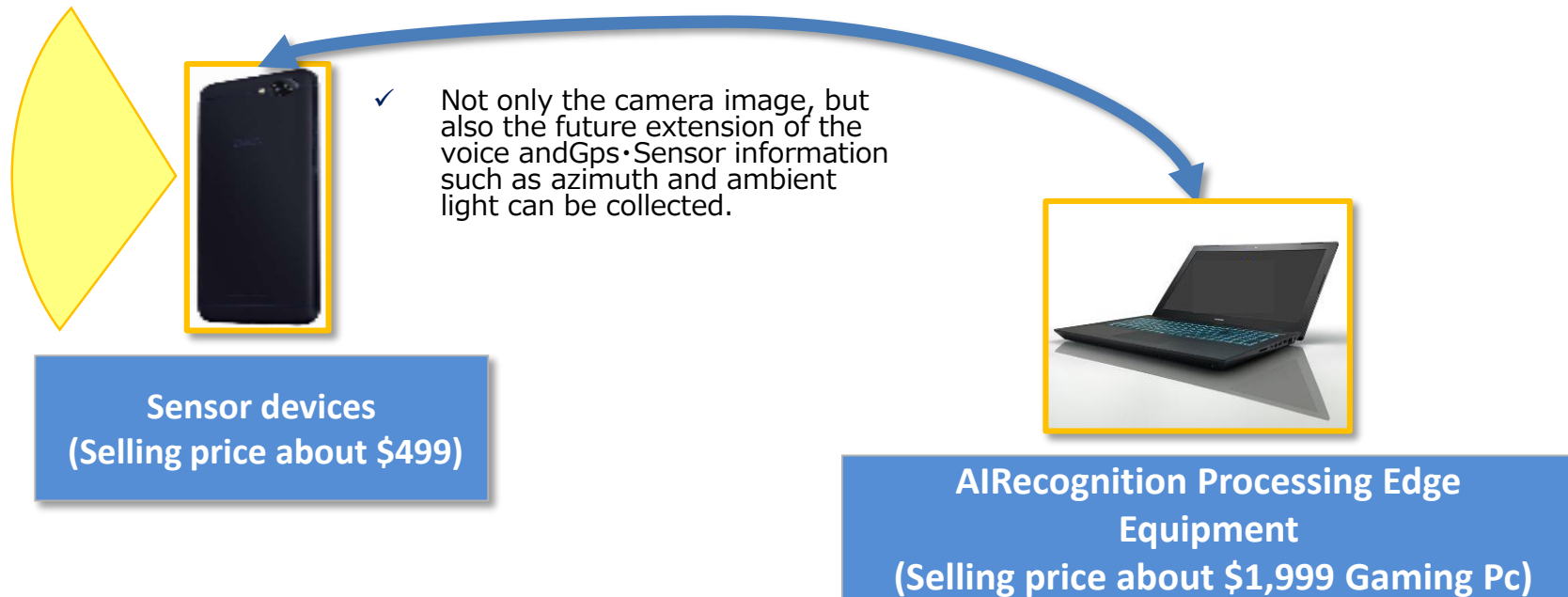
- Can collect data from multiple sensor devices
- EdgeThe data in the equipmentAIData processing and recognized results
- WebProcessing results from the browserToManagemnt



Hardware Supplement

Utilize smartphone hardware and other functions

- Smartphone, etc. Based Hardware used for sensor devices
- AI Notes that can be recognized PCs Edge equipment, sensor devices and Use in combination
- Equipment and wiring Components Including, **Hard Cost: \$2,999**



AI Technical Supplement

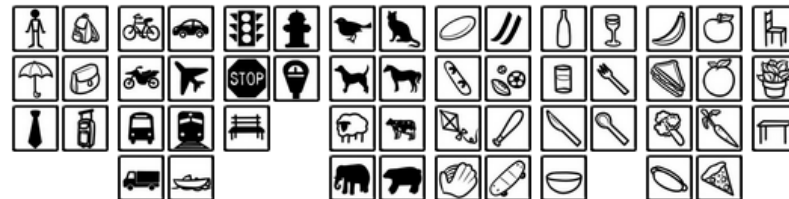
Learned general purpose AI Use of engines

- Besides the vehicle 82 The general object detection of the category Reduce learning load and broaden recognition range by leveraging possible datasets
- Unique learning by combining additional learning and learning models Model to Production

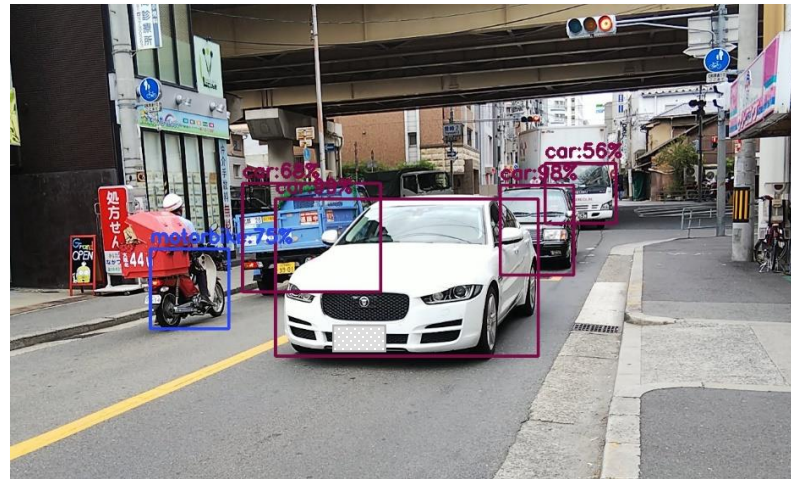
License Plate Recognition Image



Multifaceted Information recognition image



- ✓ Vehicle, passenger car • Bus • Can be categorized into tracks for recognition



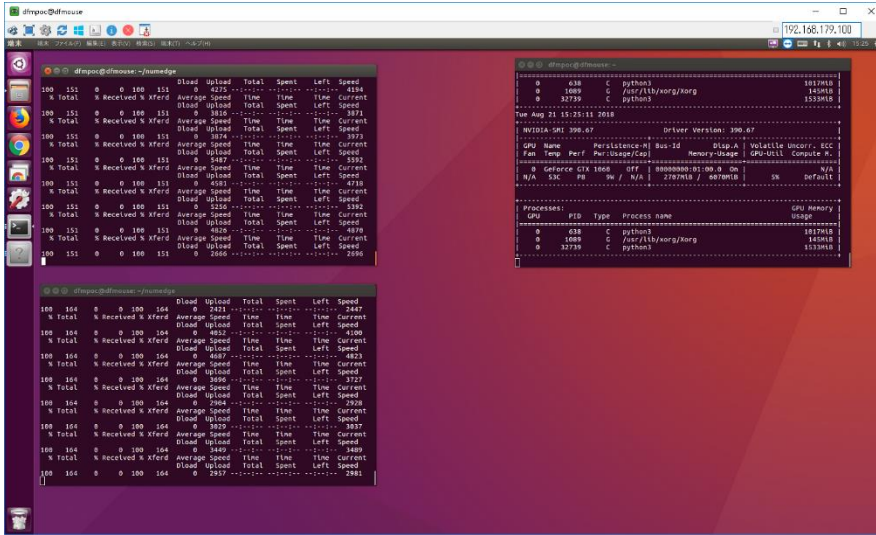
- ✓ In the surrounding Person Recognition other than the vehicle is also possible

Data collectionApp(Sensor devices)



- Capable of automatic shooting with dynamic detection(Features close to security camera)
- MobileTelephone Network andWifiViaAutomatic data transmissionRespond to
- CommunicationIf not, keep data until it is possible.possible to
- Sensitivity setting of dynamic detection is possible.
- Automatic Shooting Schedule(Start and end time setting)Can be set
- Connect toEdgeEquipment and data storage destinationOfCan be set

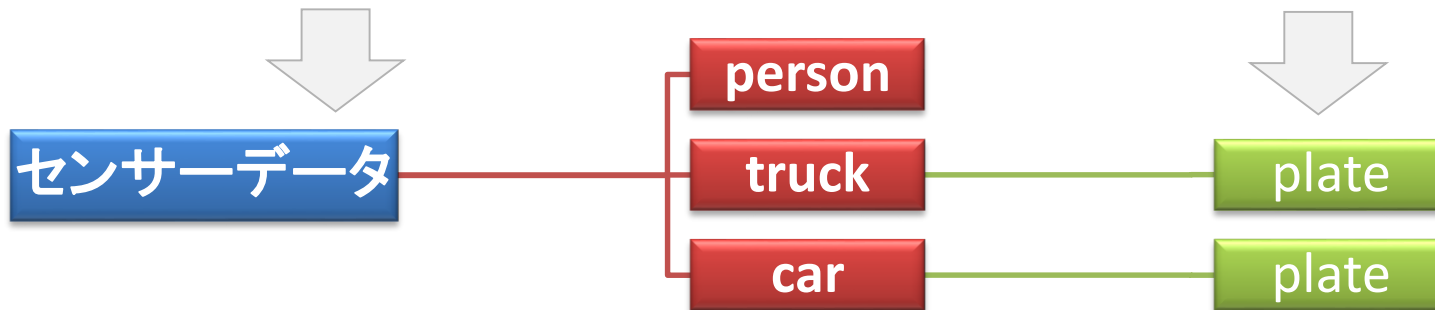
AIRecognition app(Edge Equipment)



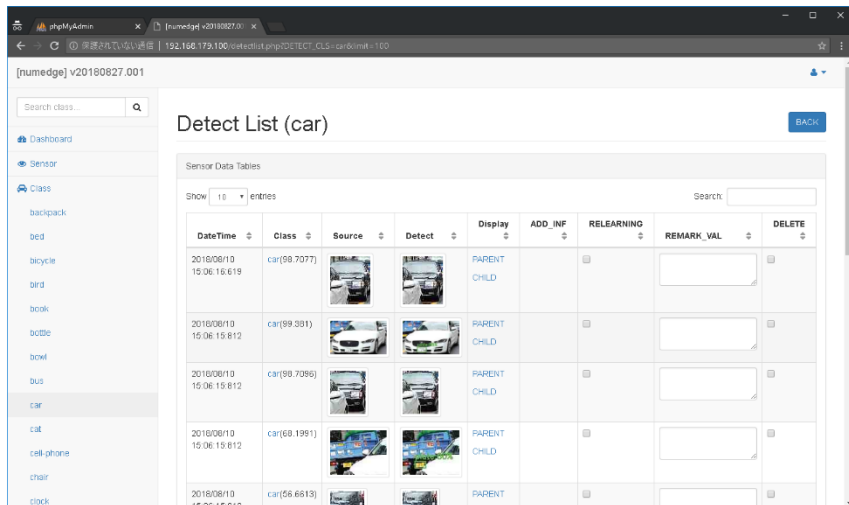
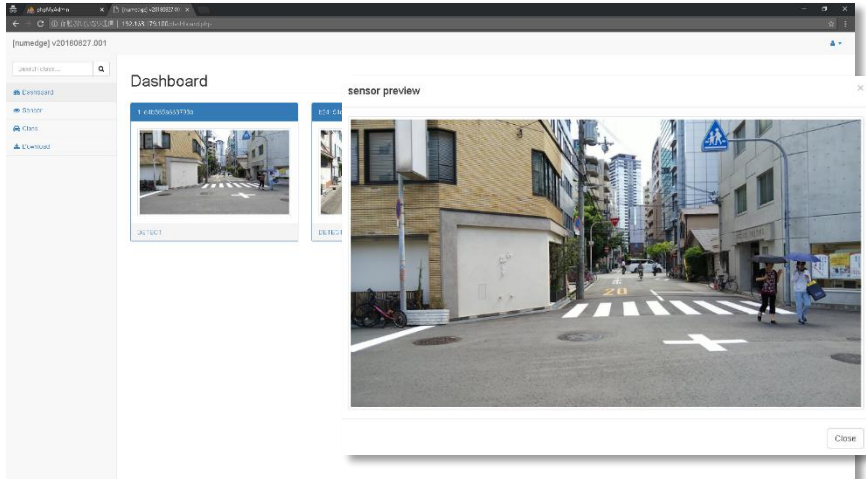
- Multiple learning models at the same time on edge equipment To run Realize
- The results of the process Can be passed on to the learning model of
 1. The sensor data is Person • Truck • Caretc. Classification
 2. Truck • Car The processing of the pass plate recognition etc. is carried out to another learning model.
- Implement AI Example
 1. Object Recognize (82 Category)
 2. License plate Object recognition
 3. Plate character Recognition

Object Recognition Learning Model

Plate Recognition Learning Model

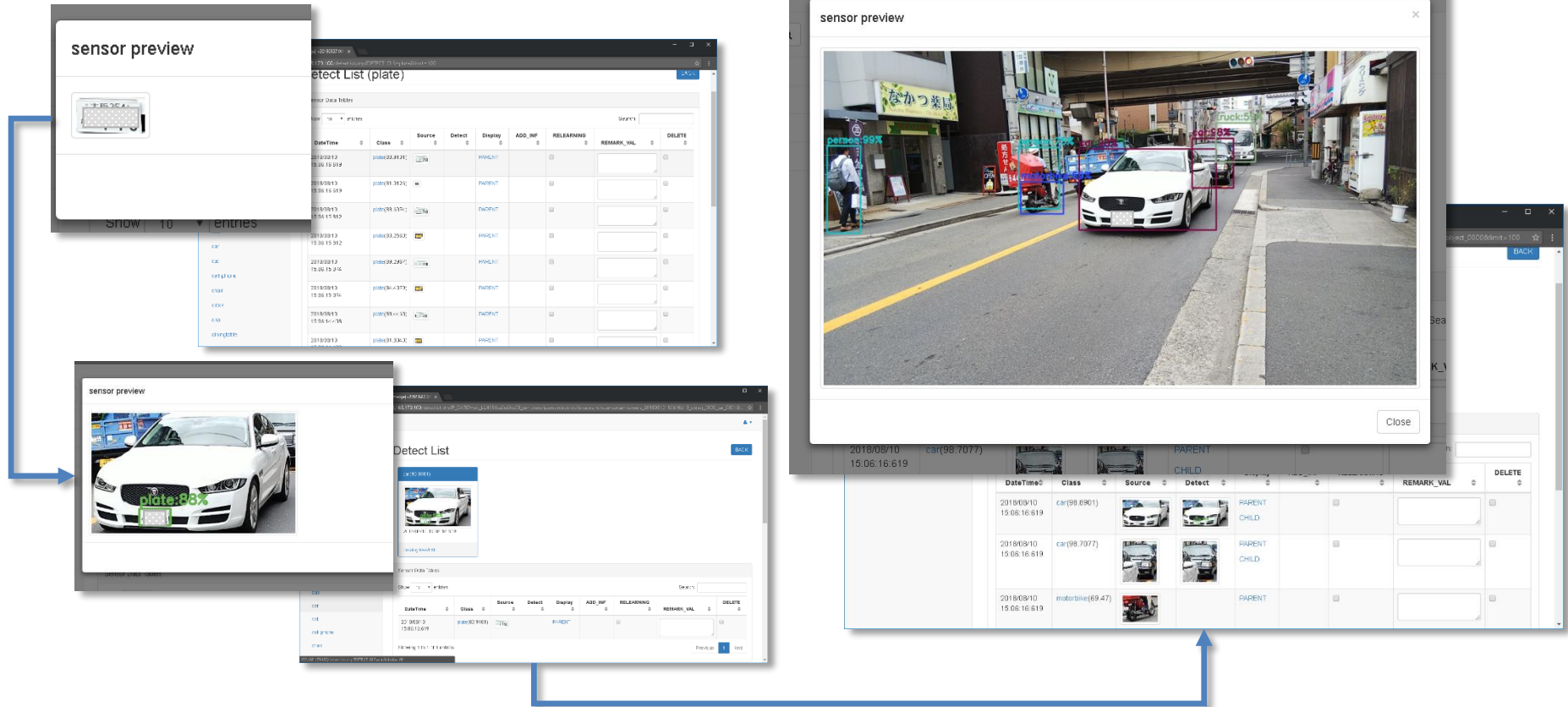


Recognition Information ManagementApp(Edge Equipment)



- Compatible with multiple sensor devices
- WebIn the browserUseButPossible
- RecognizePer ObjectClassSearch forPossible
- SensorInformationAIHierarchy of recognition resultsManaged by
 - ✓ Sensor data →Car →PlateData management in parent-child relationships(Image like BOM data)
- List of recognition sources, recognition results, etc. can be displayed.
- Of the data collection appDownload isPossibleof android8.0Subsequent correspondence)

Recognition Information ManagementApp(Edge Equipment)



Date/Time	Class	Source	Detect	Display	ADD_INF	RELEARNING	REMARK_VAL	DELETE
2018/08/10 15:06:16.619	car(98.7077)				PARENT			
2018/08/10 15:06:16.619	car(98.6901)				CHILD			
2018/08/10 15:06:16.619	car(98.7077)				CHILD			
2018/08/10 15:06:16.619	motorbive(69.47)				PARENT			

- ChildClassFrom the original parentClassCan be searched and listed

※Above isPlate → Car→The parent in the order of the sensor dataClassView image