Application Software Pack: ML Person Detector
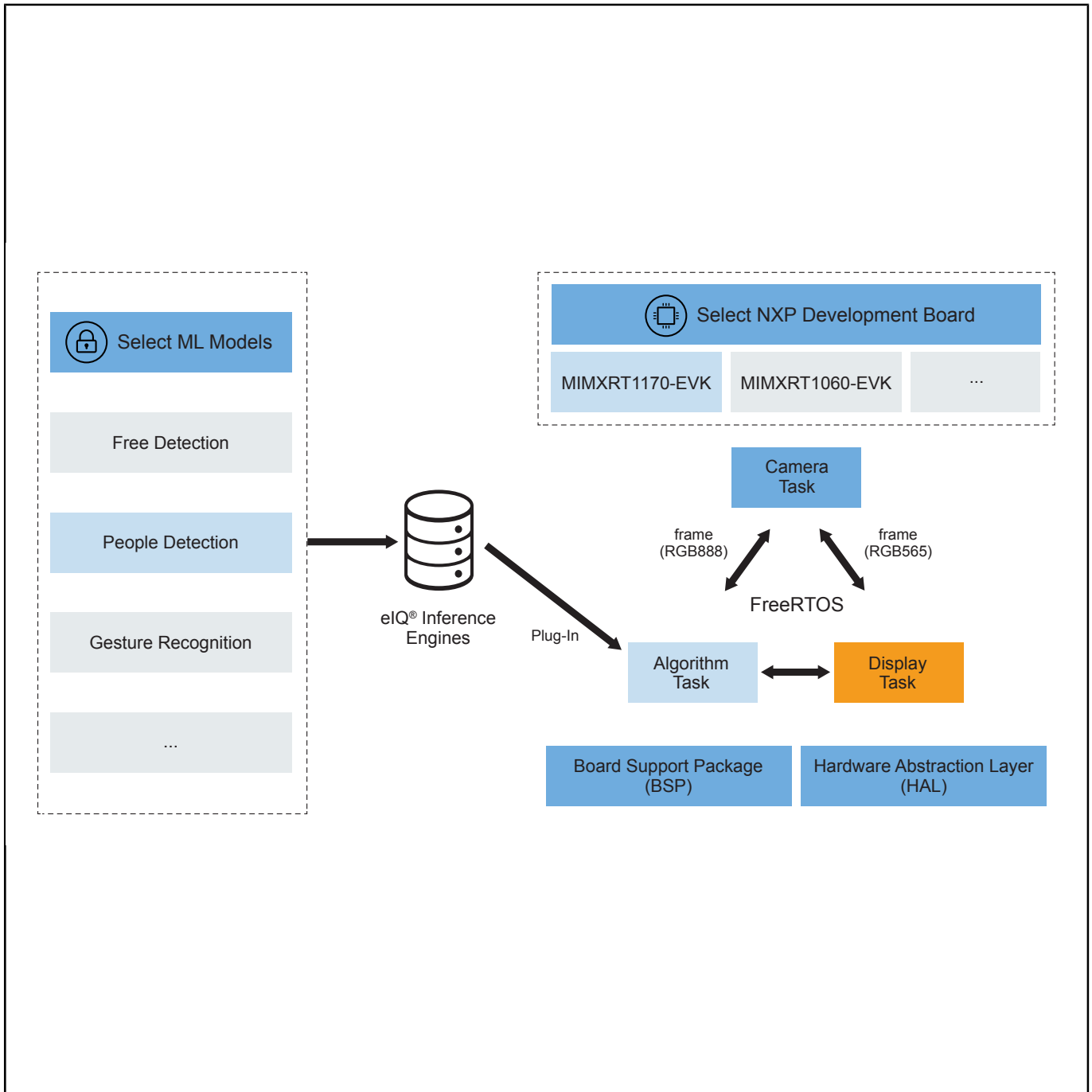
APPSWPACK-MLPD

Last Updated: Aug 9, 2023

This software pack helps developers build products that are required to detect people using NXP's i.MX RT1170 crossover MCU and eIQ® ML Software Development Environment. This project includes tested algorithms for vision intelligence (uVITA) and provides production quality software for customers to include in their end products.
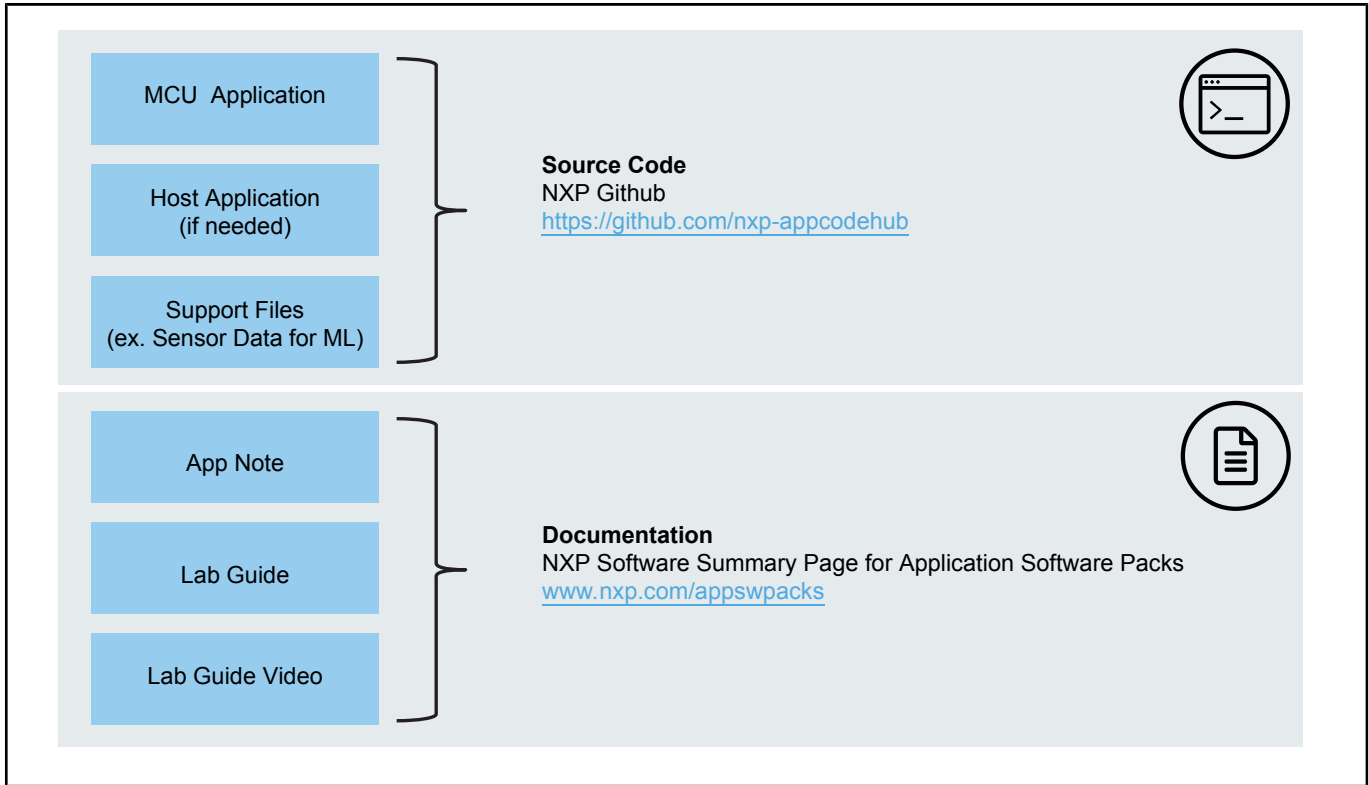
The project uses a lightweight neural network (NN) model for multi-person detection that was developed with an open-source NN structure shufflenetv2. The model was trained to detect people based on COCO and PASCAL-VOC dataset. Use this application software pack to evaluate this person detector model along with the features provided by the eIQ ML Software Development Environment.

Download this Application Software Pack and follow the steps found in the corresponding lab guide.

Application Software Pack: ML Person Detector Block Diagram

Application Software Pack Collateral Block Diagram

MCU Application

Host Application
(if needed)

Support Files
(ex. Sensor Data for ML)

Source Code
NXP Github
https://github.com/nxp-appcodehub

App Note

Lab Guide

Lab Guide Video

Documentation
NXP Software Summary Page for Application Software Packs
www.nxp.com/appswpacks

View additional information for Application Software Pack: ML Person Detector.

Note: The information on this document is subject to change without notice.