EDGE LAB 5 (10/01/26)

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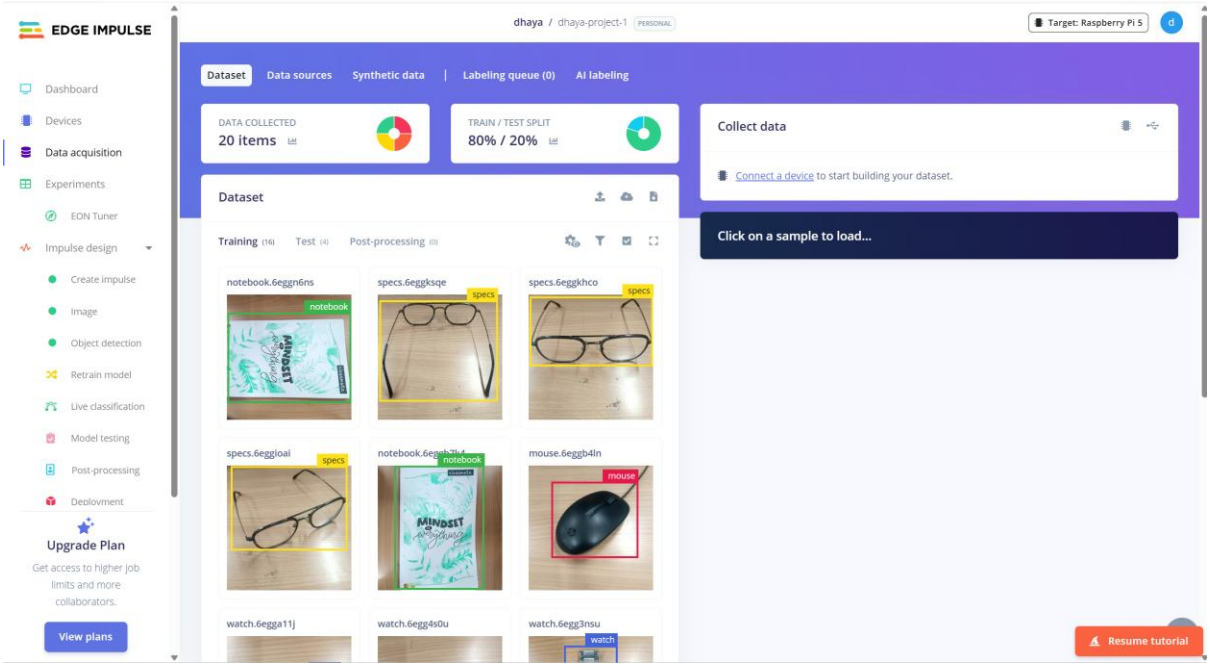
25MML0025

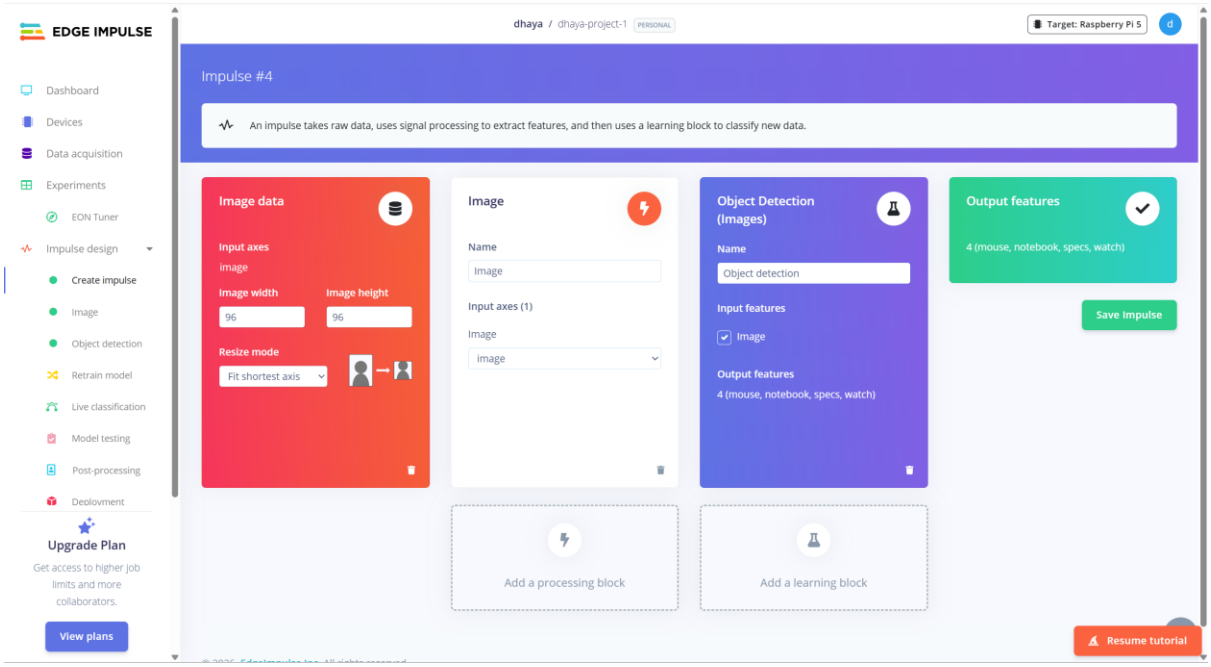
DATA ACQUISITION:

I collected 20 images with 5 images in each of the 4 different classes. This is then split into 80-20 ratio with 16 images in training data and 4 images in the testing data.



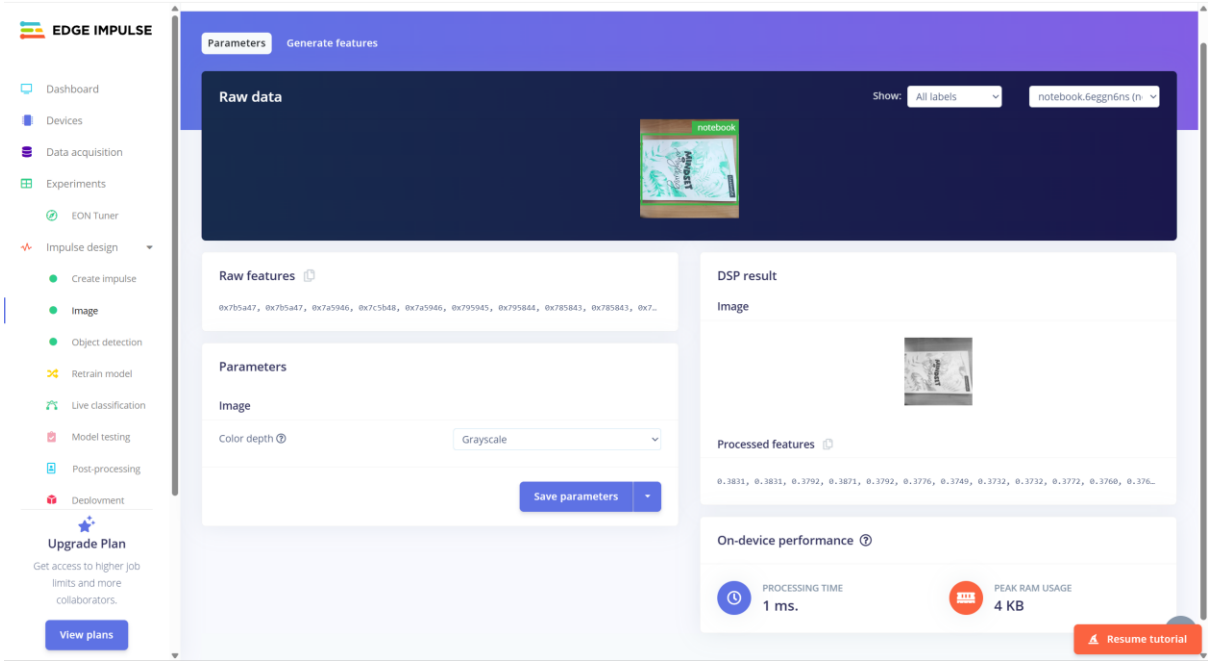
CREATING IMPULSE:

Choose the Image for the Processing block and Object detection for the Learning block since I used the bounding boxes method in the data acquisition process to label the images.



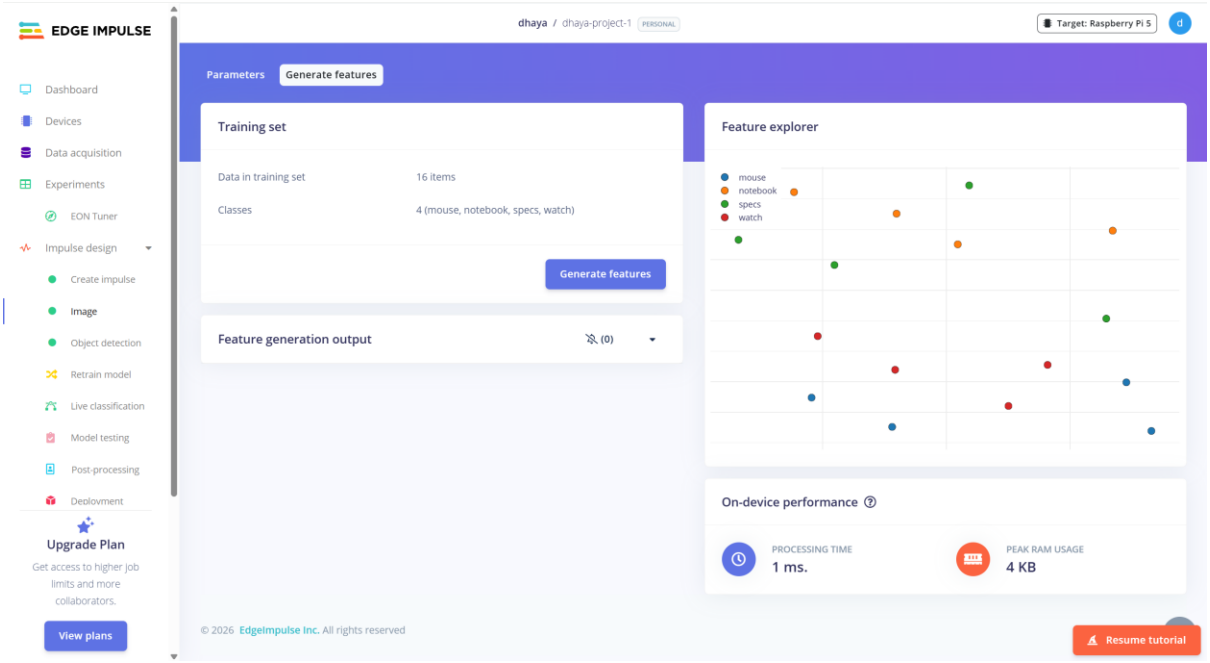
SAVING THE PARAMETERS:

Choose Grayscale and then saved the parameters.



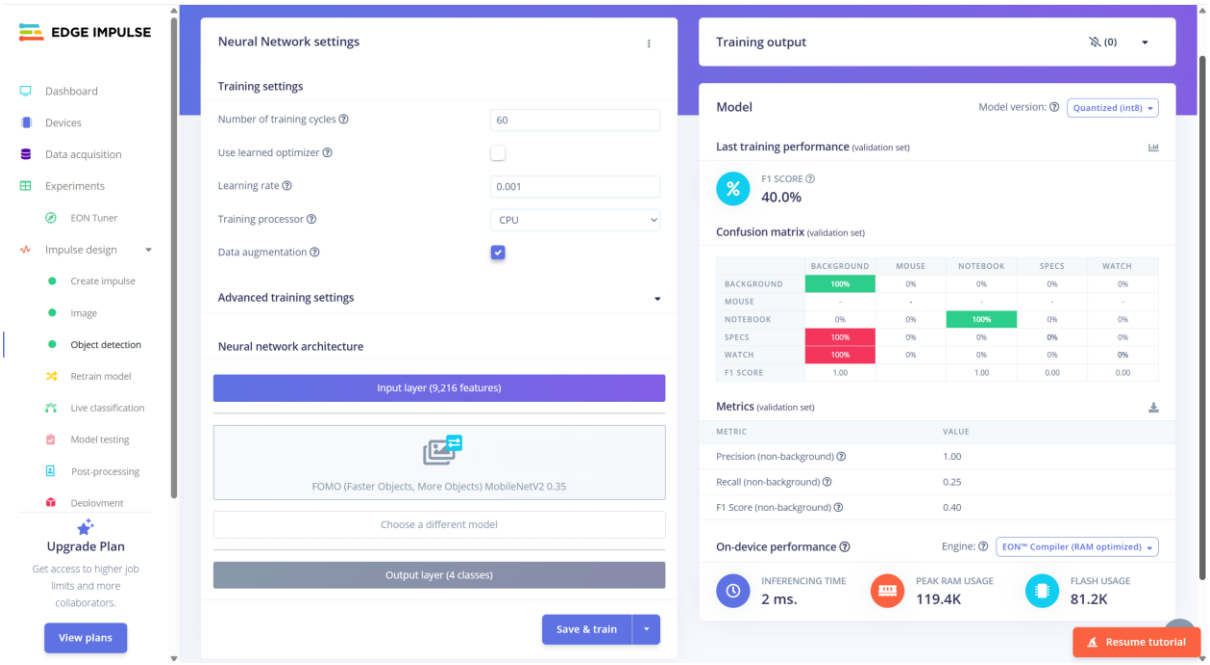
GENERATING FEATURES:

Now, generated the features



OBJECT DETECTION:

Choose the FOMO Object detection model since this works well for very small dataset and then trained for 60 epochs.



MODEL TESTING:

Testing of the model on the test set gave me an 50% Accuracy which may be later optimized by various preprocessing of the dataset.