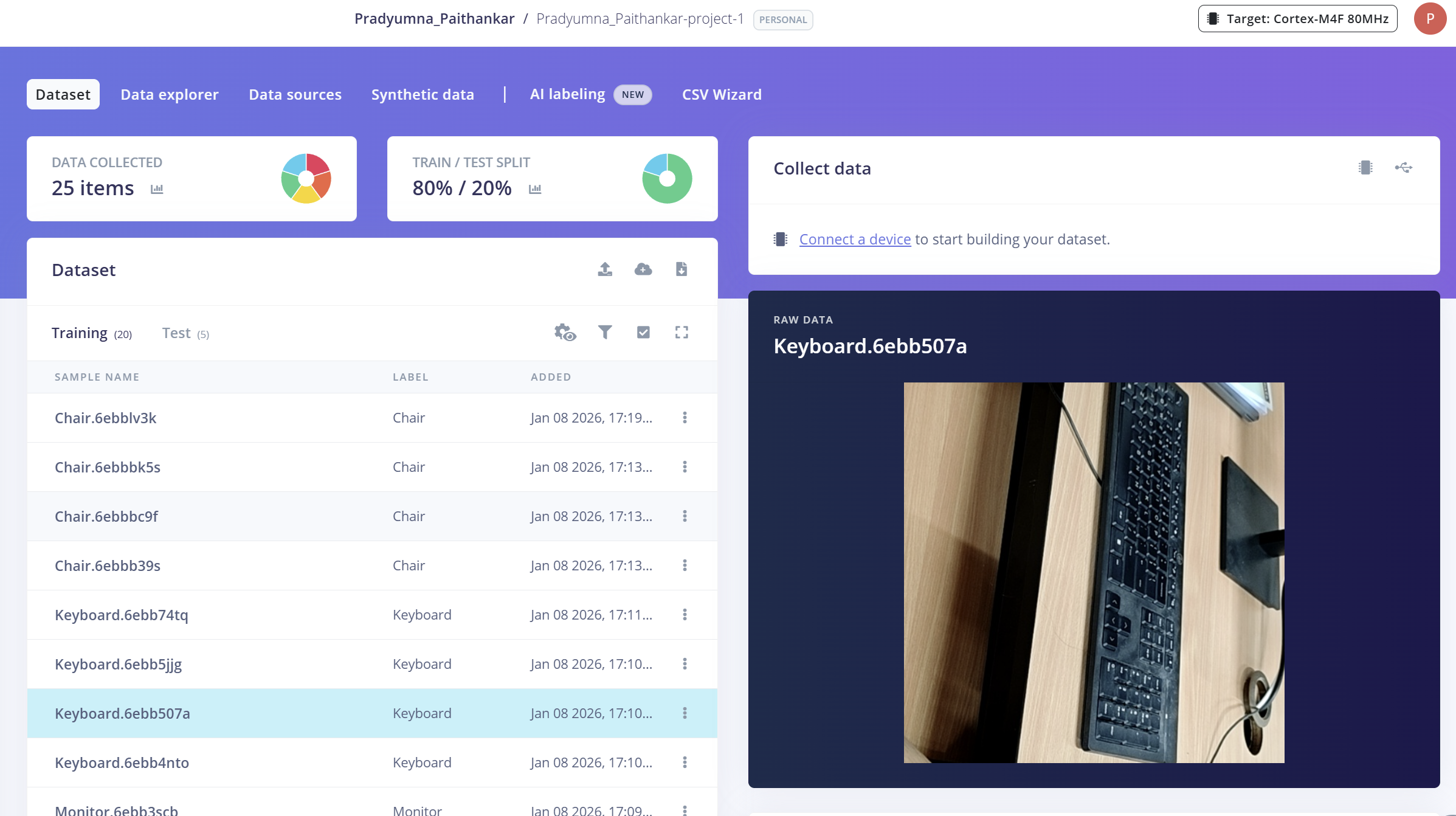
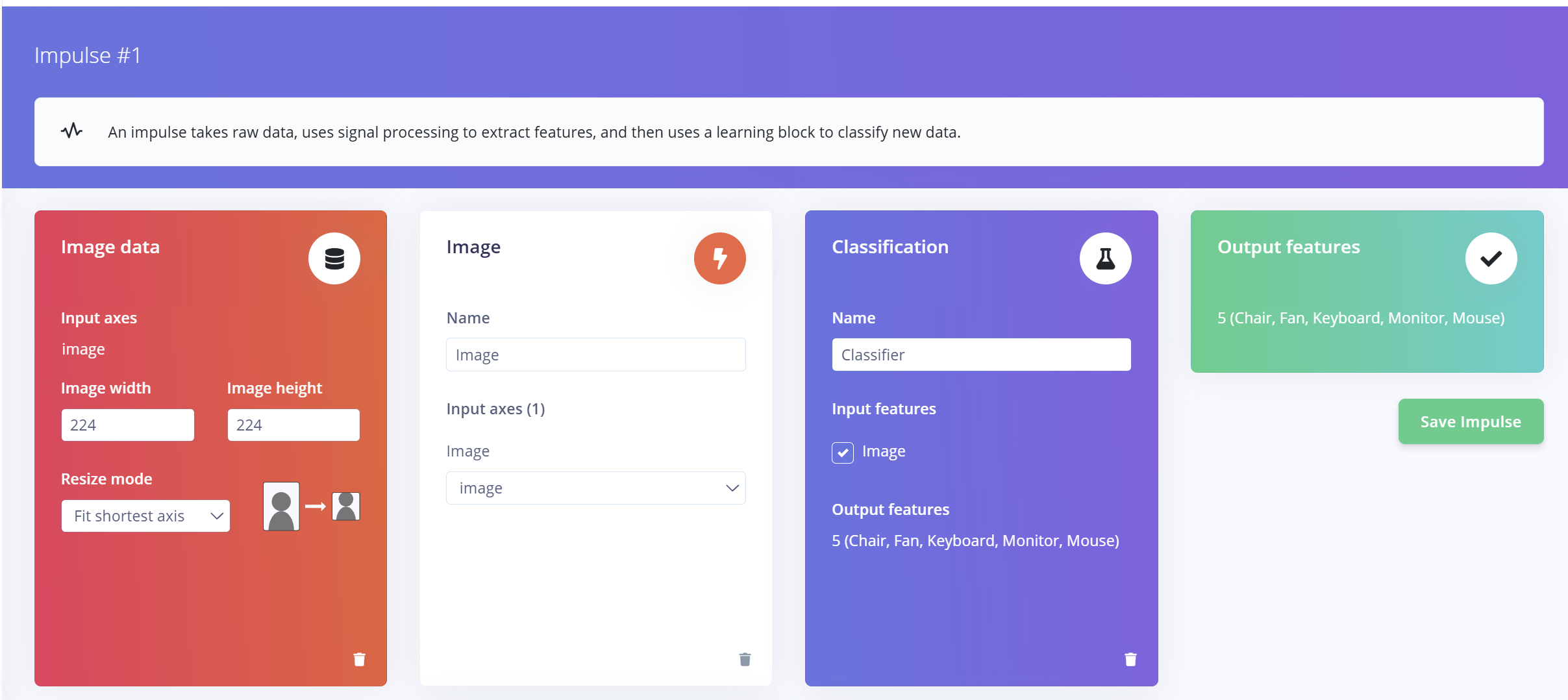
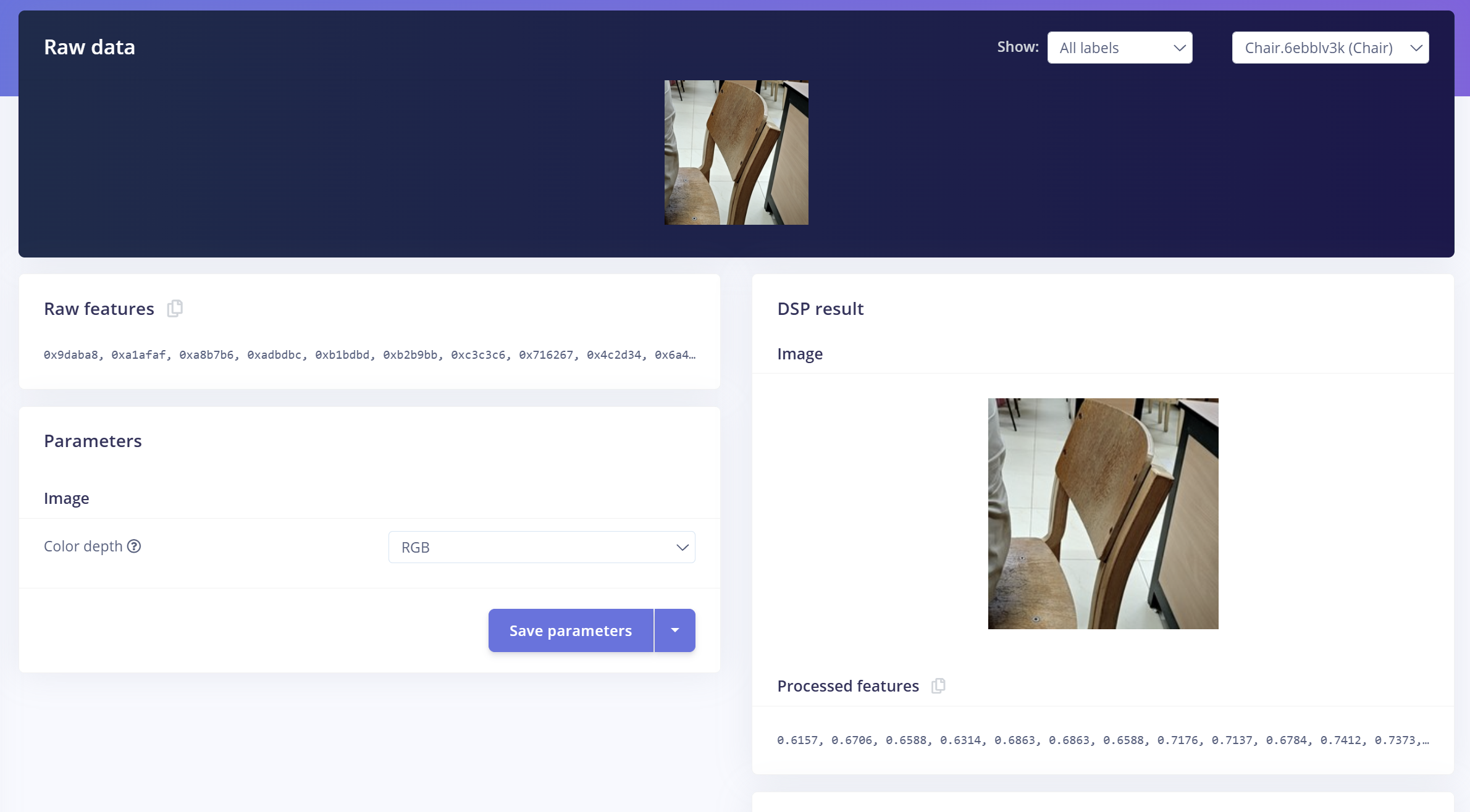
**Edge Impulse Lab Assignment**

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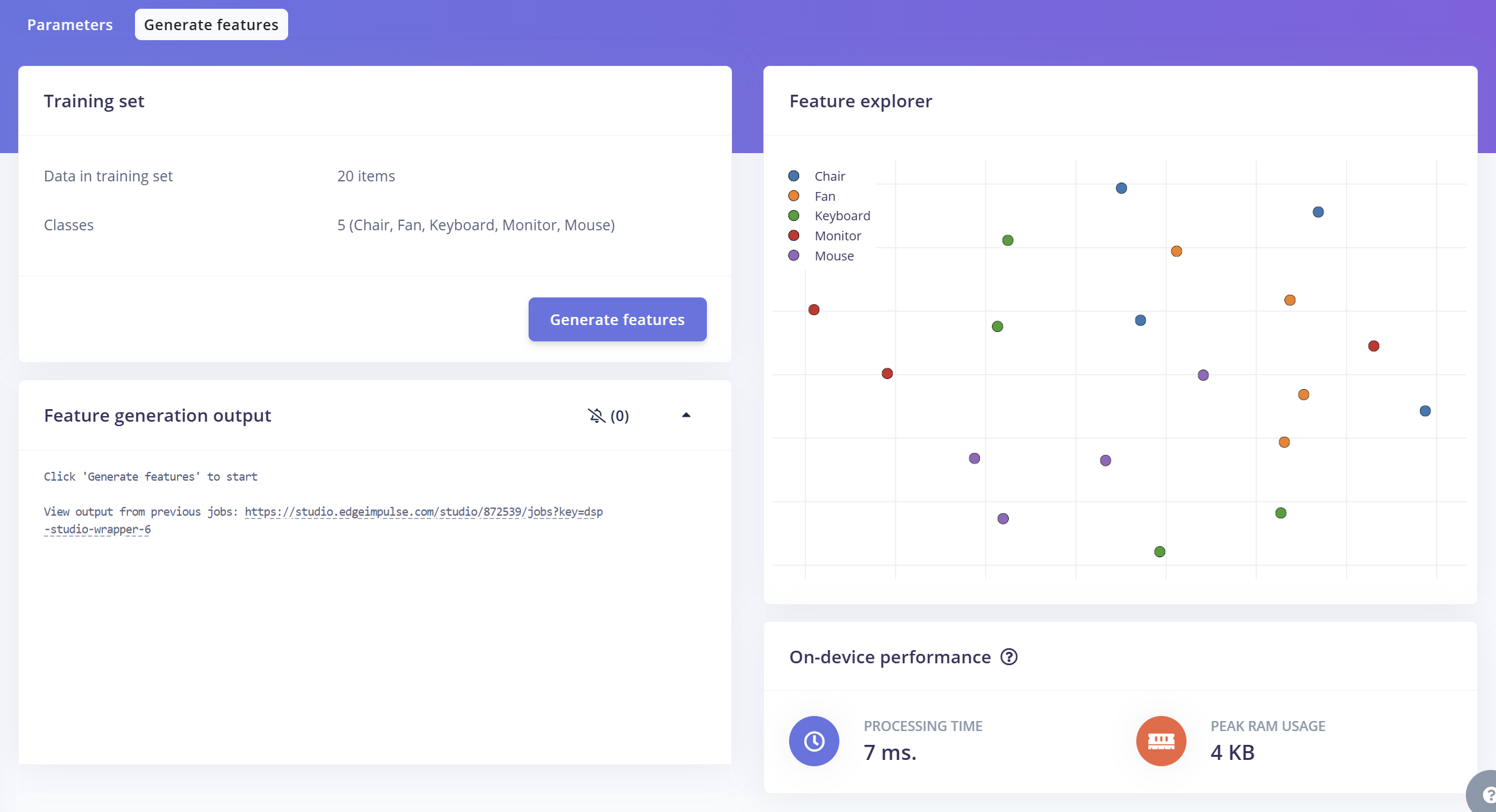
**Collected 30 items of 5 different classes and equally split them by 80/20.**

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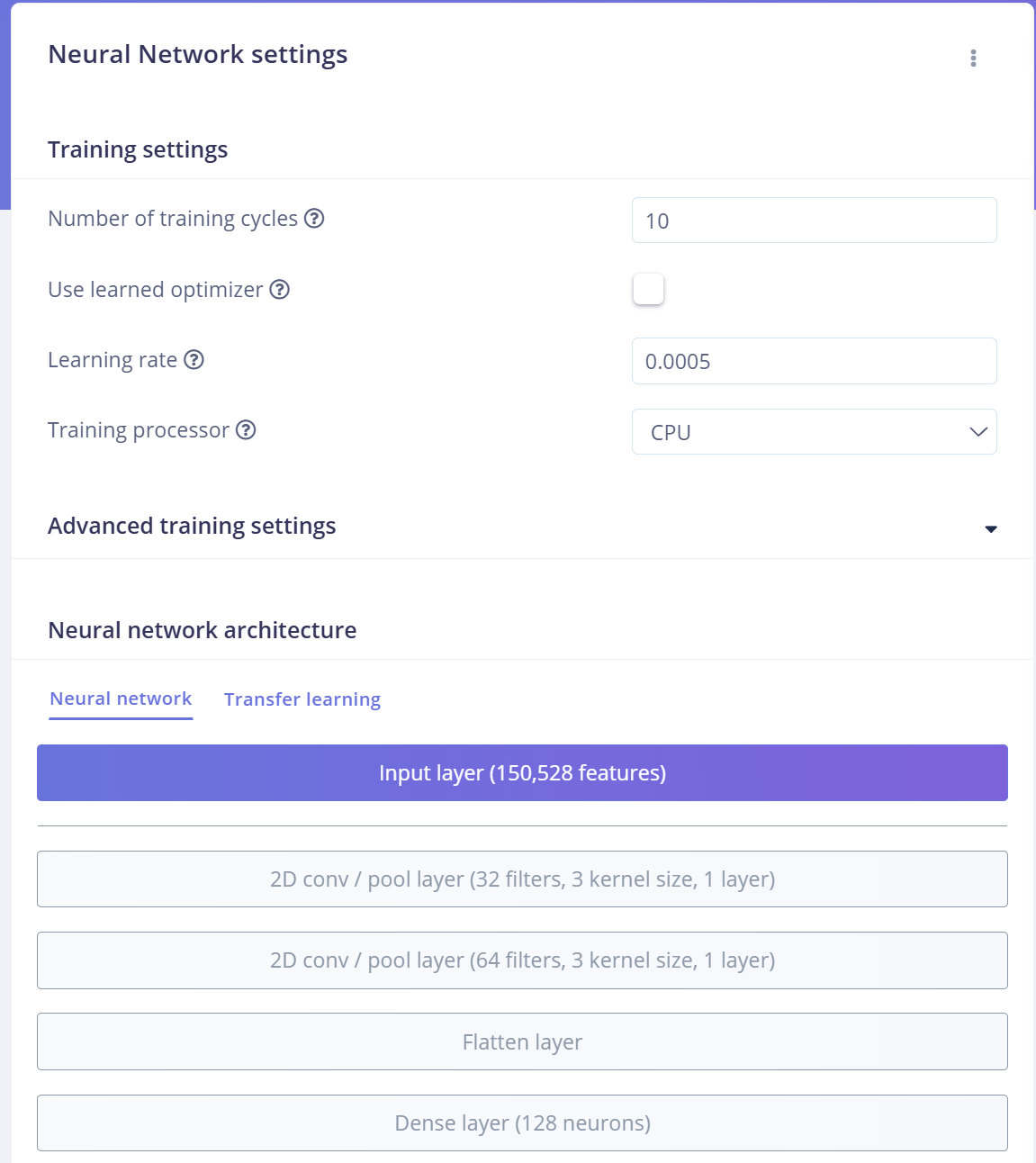
**Created a framework and kept the size of image data to be 224X224.**

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**Created features for each image as vector embeddings**

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**Generated features from embeddings**

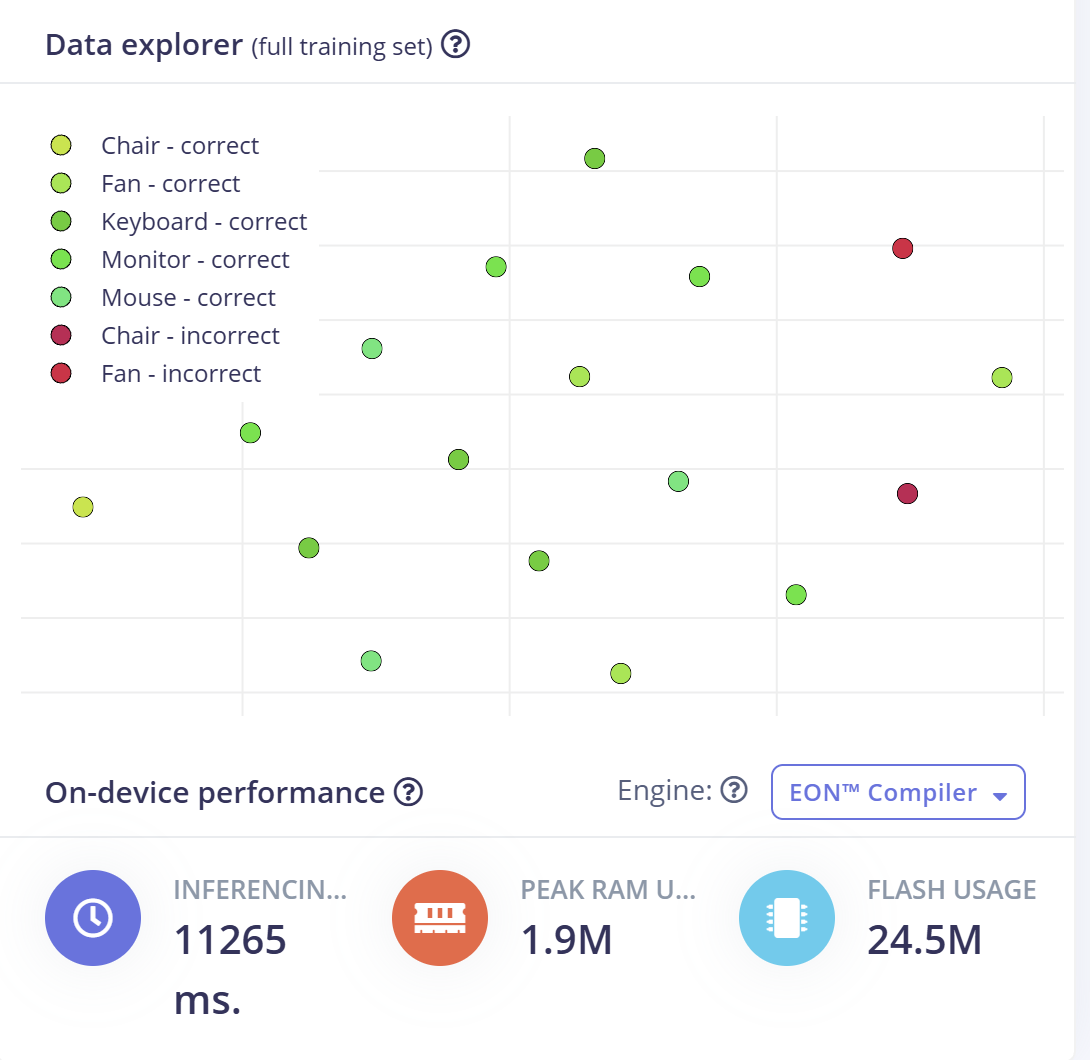
****

**Using default model with 10 epochs gave me 0% accuracy.**

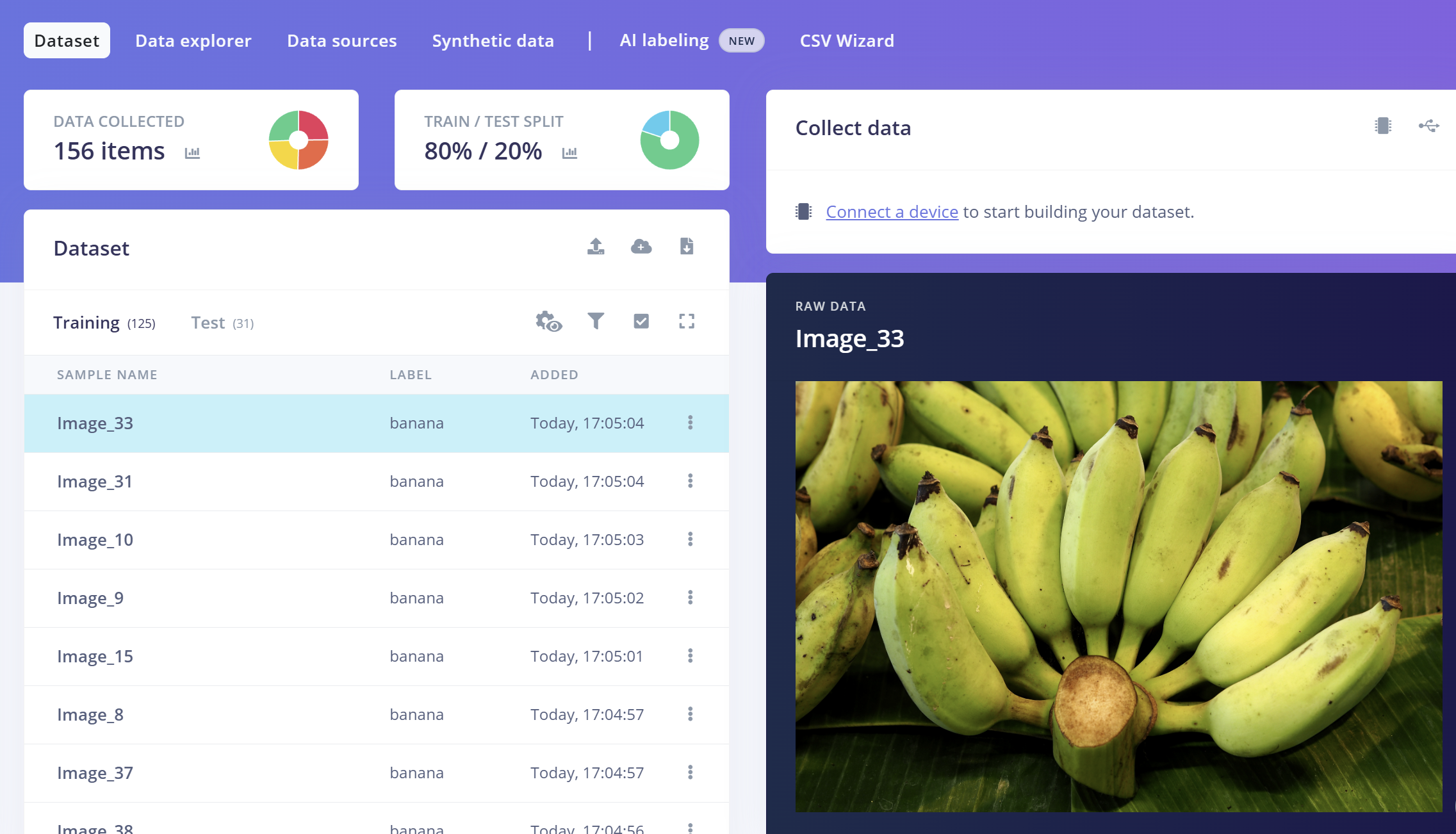
**To boost that I did hyperparameter tuning by using 32, 64 size filters and 40 epochs with a dense layer at end with 128 neurons.**

**This improved my accuracy to 50% which was comparable to the transfer learning model (MobileNET).**

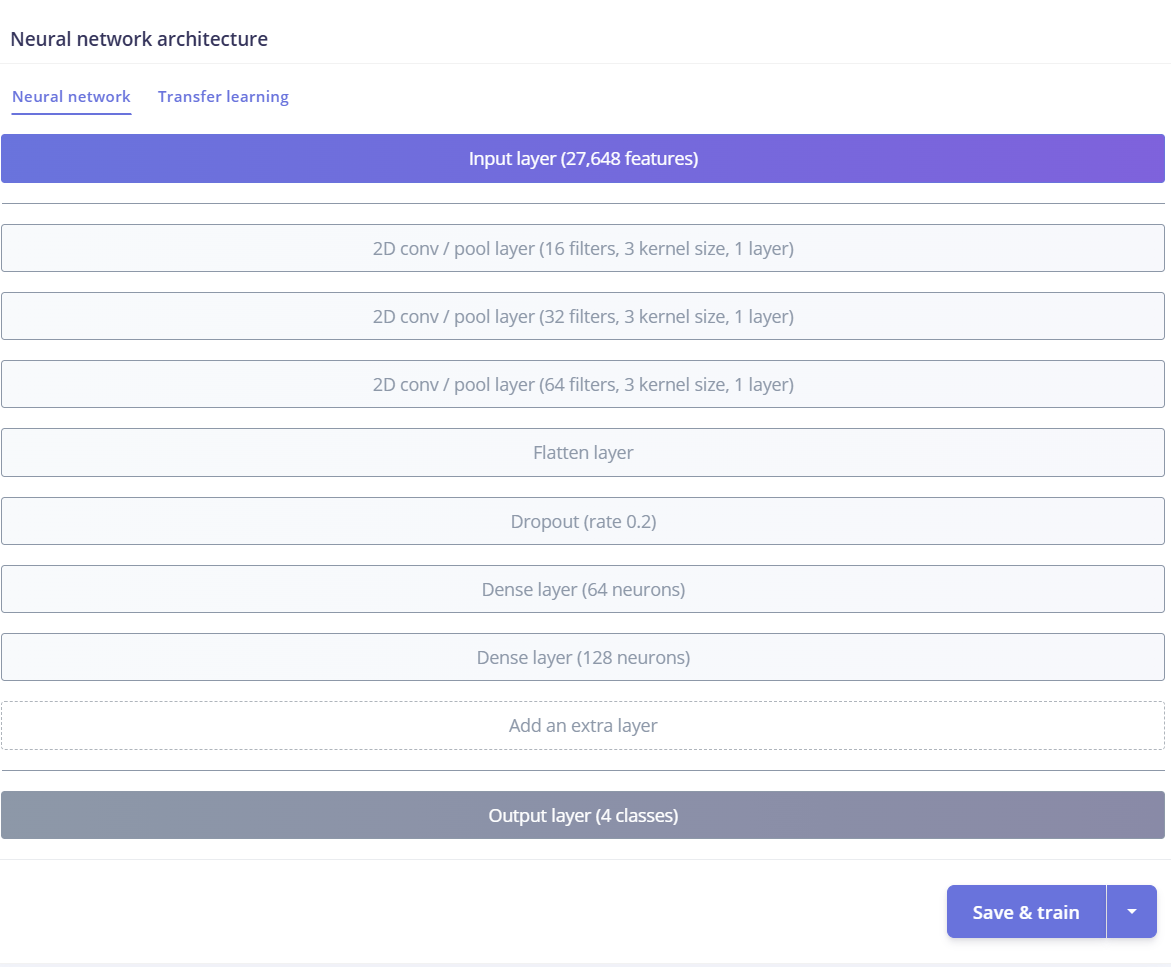
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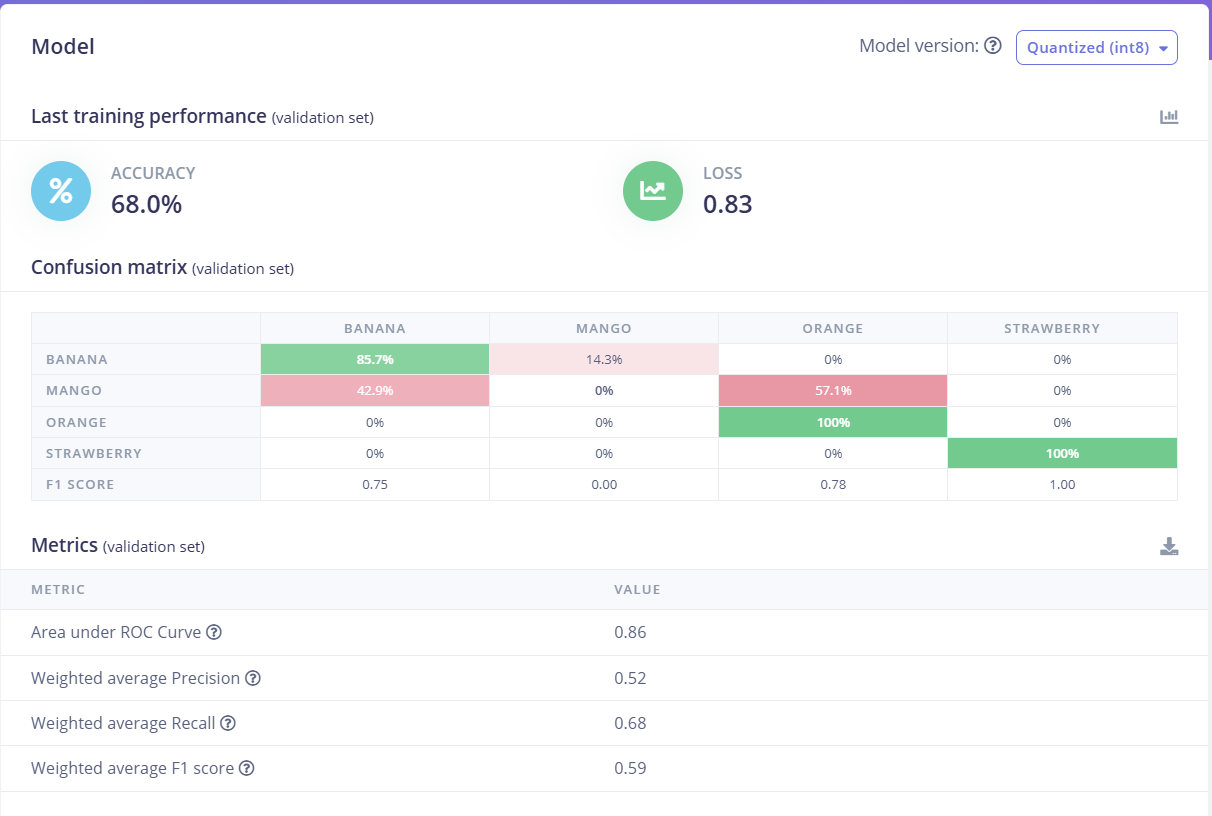
**I also tried using it for doing fruit classification on Kaggle fruit dataset.**

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**Did the same process as previous one but just created RGB features instead of grayscale**

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**As these images are more complicated, I used more layers in model.**

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