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ITAI 3377

February 16, 2025

Professor Patricia McManus

L03

A screen shot of a computer

AI-generated content may be incorrect.

I was able to complete the lab according to the instructions up to the point of uploading the tflite model to Edge Impulse. I discovered that the Edge Impulse uploader is designed for uploading data to Edge Impulse, rather than models. The solution that I found to this problem was to upload the model directly on the Edge Impulse website. This worked because I was able to successfully pretrain the model on the MNIST dataset within VS code as shown below.

A screenshot of a computer program

AI-generated content may be incorrect.

Edge Impulse allows pretrained models to be uploaded to their platform, where its inference goal, either classification, regression, or object detection can be chosen alongside the model’s expected input data type (RGB images) and output labels.

A screenshot of a computer

AI-generated content may be incorrect.

Once I saved the model, I was able to deploy the model to my smartphone by scanning the presented QR code.

A screenshot of a computer

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In the picture below, we can see that the model seems to be able to distinguish that the number presented is a 1 (bold row of 0.16), but it is not confident enough to label it as “class 1” and so says “uncertain.”

A screenshot of a social media post

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