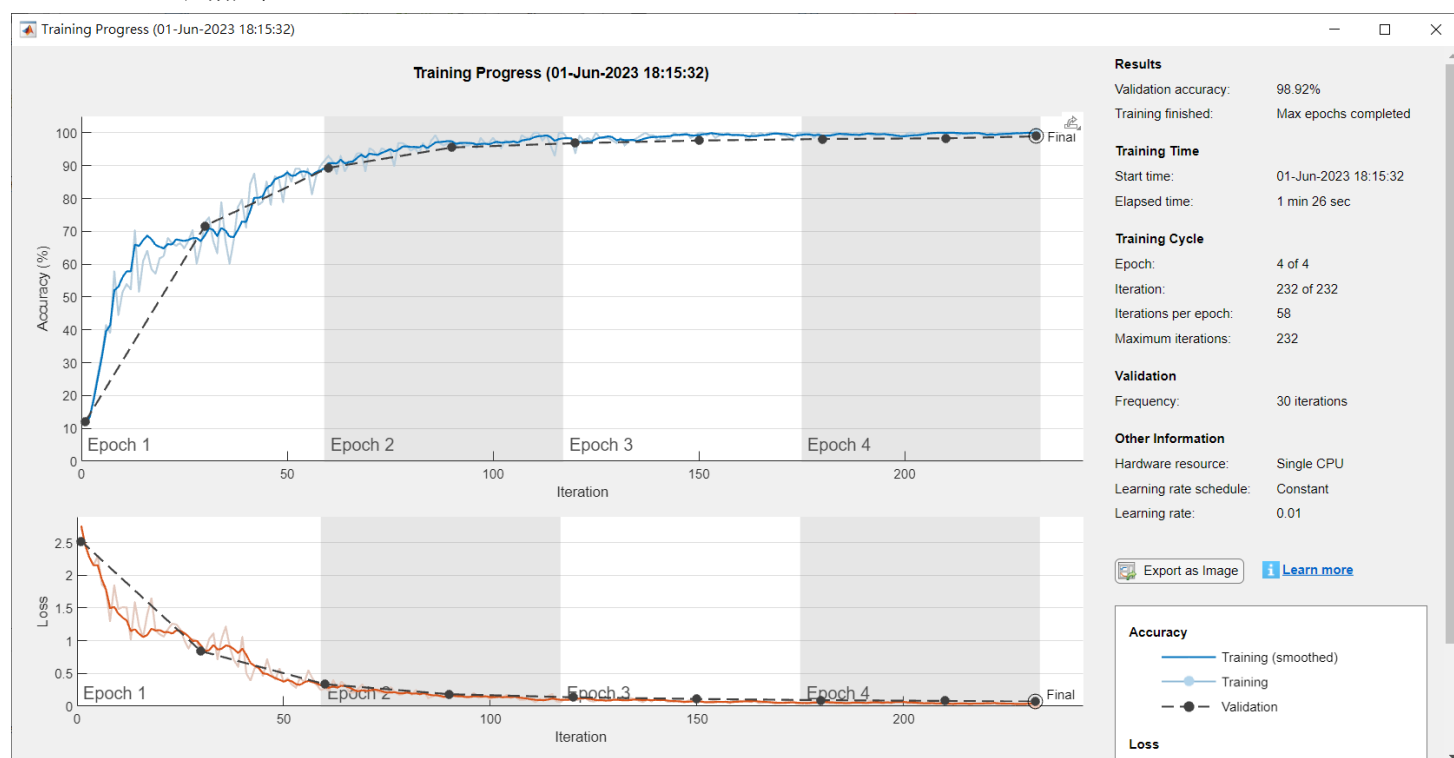周嘉禾 D1166506

The graph comes from the code which trains a convolutional neural network (CNN) to classify handwritten digits from the MNIST dataset. The MNIST dataset is a widely used benchmark in the field of computer vision and consists of grayscale images of handwritten digits from 0 to 9.

The code begins by loading the dataset and splitting it into training and validation sets. It then defines the architecture of the CNN using a sequence of layers, including convolutional, batch normalization, activation, fully connected, softmax, and classification layers. The training options are set, specifying the optimization algorithm, maximum number of epochs, and validation data. The CNN model is then trained using the training data and options. After training, the model is evaluated by predicting labels for the validation set and calculating the accuracy of the predictions.