Labwork 1

Le-Chi Thanh Lam
23BI14248

I. Data

This is a toy deep learning model trained on the PhysionNet's MIT-BIH dataset to classify heartbeats.

II. Model

The model used in this report has a basic convolutional architecture. The model is composed of three conv1d layers. Each have 32 kernels of size 5 with ReLU activation. Following the convolutional layers are a max pooling layer of size 5, strides 2. Then a flatten layer. Two fully connected layers with relu, then softmax, respectively.

III. Training

For training, we use the categorical cross entropy as loss function, Adam optimizer, and metrics is accuracy.

Then we train with batch size 64, and 12 epochs.

IV. Result

The result is 9.9785 on test loss, and 0.8276 on test accuracy.