

LIST OF FIGURES

Figure 2.1 Anatomy of the Human Brain	14
Figure 2.2 All states of epileptic electroencephalogram	15
Figure 2.3 Normal Electroencephalogram (A) compared to SeizureElectroencephalogram (B)	16
Figure 2.4 Simple convolutional neural network	17
Figure 2.5 Convolution with one stride on a 5x5 image will result from a feature map of 2x2	18
Figure 2.6 Fully connected layer of a simple convolutional neural network	19
Figure 2.7 example of time series data	19
Figure 2.8 Kernel sliding on one-dimensional data	20
Figure 3.1 System block diagram.....	23
Figure 3.2 Flowchart of the model training and testing process	24
Figure 3.3 Configuration of Epileptic Seizures Classifier	26
Figure 3.4 Detail Model of Epileptic Seizures Classifier.....	27
Figure 4.1 The graph of Adam 0.001 accuracy.....	30
Figure 4.2 The graph of Adam 0.001 loss.....	30
Figure 4.3 The graph of Adam 0.01 accuracy.....	31
Figure 4.4 The graph of Adam 0.01 loss.....	31
Figure 4.5 The graph of Adam 0.1 accuracy.....	32
Figure 4.6 The graph of Adam 0.1 loss.....	32
Figure 4.7 The graph of SGD 0.001 accuracy.....	34
Figure 4.8 The graph of SGD 0.001 loss	34
Figure 4.9 The graph of SGD 0.01 accuracy.....	35
Figure 4.10 The graph of SGD 0.01 loss.....	35
Figure 4.11 The graph of SGD 0.1 accuracy.....	36
Figure 4.12 The graph of SGD 0.1 loss.....	36
Figure 4.13 The graph of the best model accuracy	39
Figure 4.14 The graph of the best model loss	39