

Note:

1. Training parameters:

filterSize = 5;

numFilters = 32;

num_Features = 1;

num_Classes = 3;

layers = [...

sequenceInputLayer(num_Features)

convolution1dLayer(filterSize,numFilters,Padding="causal")

reluLayer

layerNormalizationLayer

globalAveragePooling1dLayer

fullyConnectedLayer(num_Classes)

softmaxLayer

classificationLayer];

miniBatchSize = 5;

options = trainingOptions("adam", ...

MaxEpochs=200, ...

InitialLearnRate=0.001, ...

SequencePaddingDirection="left", ...

ValidationData={XValidation,TValidation}, ...

Plots="training-progress", ...

Verbose=0);

2. Test accuracy = 87.70%

3. Extra test accuracy:

NO. Extra Testing	Accuracy
1	100.00%
2	86.96%
3	100.00%
4	100.00%
Mean	96.74%