CNN:

Start

Read Size of the Data

input: d: dataset, 1: dataset true labels,

ftrain, ftest, Itrain, Itest ← split feature into train subset and test subset set and labels

Itrain, Itest ← Convert to categorical list ← Itrain, Itest

ftrain ← ftrain/255.0

ftest ← ftest/255.0

M ← CNN (ftrain, Itrain)

score ← evaluate (i, ltest, M)

Display value of test and train

Stop

Decision tree:

Start

Read Size of the Data

input: d: dataset, 1: dataset true labels,

ftrain, ftest, Itrain, Itest ← split feature into train subset and test subset set and labels

Itrain, Itest ← Convert to categorical list ← Itrain, Itest

ftrain ← ftrain/255.0

ftest ← ftest/255.0

ftrain ← Reshape to single line ← ftrain

ftest ← Reshape to single line ← ftest

M ← DecisionTree (ftrain, Itrain)

score ← evaluate (i, ltest, M)

Display value of test and train

Stop

Naive Bias:

Start

Read Size of the Data

input: d: dataset, 1: dataset true labels,

ftrain, ftest, Itrain, Itest ← split feature into train subset and test subset set and labels

Itrain, Itest ← Convert to categorical list ← Itrain, Itest

ftrain ← ftrain/255.0

ftest ← ftest/255.0

ftrain ← Reshape to single line ← ftrain

ftest ← Reshape to single line ← ftest

M ← GaussianNB (ftrain, Itrain)

score ← evaluate (i, ltest, M)

Display value of test and train

Stop

SVM:

Start

Read Size of the Data

input: d: dataset, 1: dataset true labels,

ftrain, ftest, Itrain, Itest ← split feature into train subset and test subset set and labels

Itrain, Itest ← Convert to categorical list ← Itrain, Itest

ftrain ← ftrain/255.0

ftest ← ftest/255.0

ftrain ← Reshape to single line ← ftrain

ftest ← Reshape to single line ← ftest

M ← SVM.SVC (ftrain, Itrain)

score ← evaluate (i, ltest, M)

Display value of test and train

Stop

LSTM:

Start

Read Size of the Data

input: d: dataset, 1: dataset true labels,

ftrain, ftest, Itrain, Itest ← split feature into train subset and test subset set and labels

Itrain, Itest ← Expand Dimensions ← Itrain, Itest

ftrain ← ftrain/255.0

ftest ← ftest/255.0

ftrain ← Reshape to single line ← ftrain

ftest ← Reshape to single line ← ftest

M ← LSTM (ftrain, Itrain)

score ← evaluate (i, ltest, M)

Display value of test and train

Stop