

Assignment 4 Team 11

Dataset creation Steps :

1. We take the raw data folder and execute the `create_train_test_folder.m` file with the reference of the downloaded raw data folder. This execution created two folders 'train' and 'test' which contains the csv files for those 10 actions from DM01-DM37.
2. As we did for Assignment 3:
 - ☐ we generated a folder called 'processed_data' which had 10 .csv files for each action. Each of these files was a vertical concatenation of data for each action done 20 times. This was done by running the file called 'processData.m'.
 - ☐ We generated all the features and performed PCA analysis on the 'processed_data' folder using the file called 'pca_file_generator.m' with source directory as processed_data. Later we multiplied the PCA output with the PCA input for each of the 10 actions separately and generated files named such as 'pca_ABOUT.csv' in a separate folder called 'pca_data'. The pca for each of these files generated a 121X121 table which was multiplied with the pca input containing number_of_rowsX121 table for each action.
 - ☐ Now we executed the file called 'model_dataset.m' from source directory pca_data which concatenated all the pca_ABOUT.csv, pca_CAN.csv, etc file data (i.e. all the 10 action files pca data) into one from the pca_data folder. 10 copies of this was made such that each file was named in the format all_data_ABOUT.csv (this is an example) which had labels assigned to it in the 122nd column such that if the file was for ABOUT action, 1 was assigned to the row or else 0.
 - ☐ Lastly, in order to get the shuffled dataset for each action, we read data from each of the files like all_data_ABOUT.csv files and randomly shuffled the rows to generate out final dataset which were named such as shuffle_ABOUT.csv. This involved the execution of 'shuffle.m' file with source as pca_data folder.
3. This process is repeated separately for test data and finally we get the shuffled data files. We then execute the 'final_dataset.m' file which gives us 10 csv files of the format gesturename.csv (example ABOUT.csv). These files are used to run the classification algorithms to get the following results.

Decision Trees :

name: 'ABOUT.csv'
folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'
date: '30-Apr-2018 22:08:05'
bytes: 8474988
isdir: 0
datenum: 7.3718e+05

For gesture : ABOUT

The sensitivity/Recall is : 8.970359e-01
The specificity is : 4.061625e-02
The accuracy is : 7.923656e-01
The tpr is : 8.970359e-01
The fpr is : 9.593838e-01
The precision is : 8.703879e-01
The F1 score is : 8.835110e-01

name: 'AND.csv'
folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'
date: '30-Apr-2018 22:08:06'
bytes: 8474988
isdir: 0

datenum: 7.3718e+05

For gesture : AND

The sensitivity/Recall is : 9.961766e-01

The specificity is : 6.350245e-01

The accuracy is : 9.584047e-01

The tpr is : 9.961766e-01

The fpr is : 3.649755e-01

The precision is : 9.589621e-01

The F1 score is : 9.772152e-01

name: 'CAN.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:07'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : CAN

The sensitivity/Recall is : 6.978294e-01

The specificity is : 6.949153e-02

The accuracy is : 6.343718e-01

The tpr is : 6.978294e-01

The fpr is : 9.305085e-01

The precision is : 8.697200e-01

The F1 score is : 7.743503e-01

name: 'COP.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:08'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : COP

The sensitivity/Recall is : 8.977964e-01

The specificity is : 5.709343e-02

The accuracy is : 8.146183e-01

The tpr is : 8.977964e-01

The fpr is : 9.429066e-01

The precision is : 8.966041e-01

The F1 score is : 8.971998e-01

name: 'DEAF.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:09'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : DEAF

The sensitivity/Recall is : 7.097019e-01

The specificity is : 5.739130e-02

The accuracy is : 6.454981e-01

The tpr is : 7.097019e-01

The fpr is : 9.426087e-01

The precision is : 8.733645e-01

The F1 score is : 7.830732e-01

name: 'DECIDE.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:09'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : DECIDE

The sensitivity/Recall is : 9.021285e-01

The specificity is : 1.500000e-01

The accuracy is : 8.274564e-01

The tpr is : 9.021285e-01

The fpr is : 8.500000e-01

The precision is : 9.059160e-01

The F1 score is : 9.040183e-01

name: 'FATHER.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:10'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : FATHER

The sensitivity/Recall is : 9.919051e-01

The specificity is : 5.660377e-02

The accuracy is : 9.070524e-01

The tpr is : 9.919051e-01

The fpr is : 9.433962e-01

The precision is : 9.133299e-01

The F1 score is : 9.509972e-01

name: 'FIND.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:11'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : FIND

The sensitivity/Recall is : 1

The specificity is : 5.989111e-02

The accuracy is : 9.113317e-01

The tpr is : 1

The fpr is : 9.401089e-01

The precision is : 9.108280e-01

The F1 score is : 9.533333e-01

name: 'HEARING.csv'

folder: '/Users/nikitabahl/Downloads/CSE572_A2_data_new copy/final_dataset'

date: '30-Apr-2018 22:08:12'

bytes: 8474988

isdir: 0

datenum: 7.3718e+05

For gesture : HEARING

The sensitivity/Recall is : 1

The specificity is : 5.253283e-02

The accuracy is : 9.135570e-01

The tpr is : 1

The fpr is : 9.474672e-01

The precision is : 9.131407e-01

The F1 score is : 9.545986e-01

SVM:

For SVM, run SVM_Read on the final_dataset

OUTPUT:

>> SVM_Read

GESTURE : ABOUT

DM : 11

Confusion Matrix:
182 0
0 23

For Gesture : ABOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12

Confusion Matrix:
187 0
0 18

For Gesture : ABOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13

Confusion Matrix:
186 0
0 19

For Gesture : ABOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14

Confusion Matrix:
176 0
22 7

For Gesture : ABOUT

The Accuracy is : 8.926829e+01
The Precision is : 1
The Recall is : 2.413793e-01
The f1Score is : 3.888889e-01

DM : 15

Confusion Matrix:
174 0
31 0

For Gesture : ABOUT

The Accuracy is : 8.487805e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16

Confusion Matrix:
178 0
27 0

For Gesture : ABOUT

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17

Confusion Matrix:
175 0
30 0

For Gesture : ABOUT

The Accuracy is : 8.536585e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18

Confusion Matrix:
174 0

31 0

For Gesture : ABOUT

The Accuracy is : 8.487805e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19

Confusion Matrix:
177 0
28 0

For Gesture : ABOUT

The Accuracy is : 8.634146e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20

Confusion Matrix:
184 0
21 0

For Gesture : ABOUT

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21

Confusion Matrix:
178 0
27 0

For Gesture : ABOUT

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
178 0
27 0

For Gesture : ABOUT

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
179 0
26 0

For Gesture : ABOUT

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
180 0
25 0

For Gesture : ABOUT

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
177 0
28 0

For Gesture : ABOUT

The Accuracy is : 8.634146e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
179 0
26 0

For Gesture : ABOUT

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
188 0
17 0

For Gesture : ABOUT

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
180 0
25 0

For Gesture : ABOUT

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
180 0
25 0

For Gesture : ABOUT

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
189 0
16 0

For Gesture : ABOUT

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
181 0
24 0

For Gesture : ABOUT

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
179 0
26 0

For Gesture : ABOUT

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
174 0
31 0

For Gesture : ABOUT

The Accuracy is : 8.487805e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
187 0
18 0

For Gesture : ABOUT

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
178 0
27 0

For Gesture : ABOUT

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
180 0
25 0

For Gesture : ABOUT

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
177 0
28 0

For Gesture : ABOUT

The Accuracy is : 8.634146e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : AND

DM : 11
Confusion Matrix:
185 0
0 20

For Gesture : AND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
182 0
0 23

For Gesture : AND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
187 0
0 18

For Gesture : AND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
189 0
13 3

For Gesture : AND

The Accuracy is : 9.365854e+01
The Precision is : 1
The Recall is : 1.875000e-01
The f1Score is : 3.157895e-01

DM : 15
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
188 0
17 0

For Gesture : AND

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
187 0
18 0

For Gesture : AND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
178 0
27 0

For Gesture : AND

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
178 0
27 0

For Gesture : AND

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
174 0
31 0

For Gesture : AND

The Accuracy is : 8.487805e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
188 0
17 0

For Gesture : AND

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
185 0
20 0

For Gesture : AND

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
178 0
27 0

For Gesture : AND

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
187 0
18 0

For Gesture : AND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
185 0
20 0

For Gesture : AND

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
187 0
18 0

For Gesture : AND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
183 0
22 0

For Gesture : AND

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
180 0
25 0

For Gesture : AND

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
184 0
21 0

For Gesture : AND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
186 0
19 0

For Gesture : AND

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
183 0
22 0

For Gesture : AND

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
180 0
25 0

For Gesture : AND

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
178 0
27 0

For Gesture : AND

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : CAN

DM : 11
Confusion Matrix:
189 0
0 16

For Gesture : CAN

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
182 0
0 23

For Gesture : CAN

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
179 0
0 26

For Gesture : CAN

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
181 0
19 5

For Gesture : CAN

The Accuracy is : 9.073171e+01
The Precision is : 1
The Recall is : 2.083333e-01
The f1Score is : 3.448276e-01

DM : 15
Confusion Matrix:
184 0
21 0

For Gesture : CAN

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
182 0
23 0

For Gesture : CAN

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
186 0
19 0

For Gesture : CAN

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
179 0
26 0

For Gesture : CAN

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
184 0
21 0

For Gesture : CAN

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
186 0
19 0

For Gesture : CAN

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
185 0
20 0

For Gesture : CAN

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
181 0
24 0

For Gesture : CAN

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
187 0
18 0

For Gesture : CAN

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
176 0
29 0

For Gesture : CAN

The Accuracy is : 8.585366e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
180 0
25 0

For Gesture : CAN

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
183 0
22 0

For Gesture : CAN

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
187 0
18 0

For Gesture : CAN

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
181 0
24 0

For Gesture : CAN

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
180 0
25 0

For Gesture : CAN

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
185 0
20 0

For Gesture : CAN

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
186 0
19 0

For Gesture : CAN

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
191 0
14 0

For Gesture : CAN

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
188 0
17 0

For Gesture : CAN

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
189 0
16 0

For Gesture : CAN

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
190 0
15 0

For Gesture : CAN

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
190 0
15 0

For Gesture : CAN

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
180 0
25 0

For Gesture : CAN

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : COP

DM : 11
Confusion Matrix:
180 0
0 25

For Gesture : COP

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
182 0
0 23

For Gesture : COP

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
184 0
0 21

For Gesture : COP

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
189 0
12 4

For Gesture : COP

The Accuracy is : 9.414634e+01
The Precision is : 1
The Recall is : 2.500000e-01
The f1Score is : 4.000000e-01

DM : 15
Confusion Matrix:
192 0
13 0

For Gesture : COP

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
185 0
20 0

For Gesture : COP

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
186 0
19 0

For Gesture : COP

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
179 0
26 0

For Gesture : COP

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
179 0
26 0

For Gesture : COP

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
191 0
14 0

For Gesture : COP

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
185 0
20 0

For Gesture : COP

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
184 0
21 0

For Gesture : COP

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
179 0
26 0

For Gesture : COP

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
181 0
24 0

For Gesture : COP

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
183 0
22 0

For Gesture : COP

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
180 0
25 0

For Gesture : COP

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
185 0
20 0

For Gesture : COP

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
182 0
23 0

For Gesture : COP

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
184 0
21 0

For Gesture : COP

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
184 0
21 0

For Gesture : COP

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
183 0
22 0

For Gesture : COP

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
187 0
18 0

For Gesture : COP

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
187 0
18 0

For Gesture : COP

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
187 0
18 0

For Gesture : COP

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
184 0
21 0

For Gesture : COP

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
185 0
20 0

For Gesture : COP

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
185 0
20 0

For Gesture : COP

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : GOOUT

DM : 11
Confusion Matrix:
190 0
0 15

For Gesture : GOOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
186 0
0 19

For Gesture : GOOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
190 0
0 15

For Gesture : GOOUT

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
180 0
18 7

For Gesture : GOOUT

The Accuracy is : 9.121951e+01
The Precision is : 1
The Recall is : 2.800000e-01
The f1Score is : 4.375000e-01

DM : 15
Confusion Matrix:
190 0
15 0

For Gesture : GOOUT

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
183 0
22 0

For Gesture : GOOUT

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
183 0
22 0

For Gesture : GOOUT

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
188 0
17 0

For Gesture : GOOUT

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
192 0
13 0

For Gesture : GOOUT

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
190 0
15 0

For Gesture : GOOUT

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
188 0
17 0

For Gesture : GOOUT

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
183 0
22 0

For Gesture : GOOUT

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
192 0
13 0

For Gesture : GOOUT

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
180 0
25 0

For Gesture : GOOUT

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
185 0
20 0

For Gesture : GOOUT

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
184 0
21 0

For Gesture : GOOUT

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
186 0
19 0

For Gesture : GOOUT

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
187 0
18 0

For Gesture : GOOUT

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
183 0
22 0

For Gesture : GOOUT

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
189 0
16 0

For Gesture : GOOUT

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
182 0
23 0

For Gesture : GOOUT

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
179 0
26 0

For Gesture : GOOUT

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
179 0
26 0

For Gesture : GOOUT

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
185 0
20 0

For Gesture : GOOUT

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
186 0
19 0

For Gesture : GOOUT

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
177 0
28 0

For Gesture : GOOUT

The Accuracy is : 8.634146e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
190 0
15 0

For Gesture : GOOUT

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : DEAF

DM : 11
Confusion Matrix:
187 0
0 18

For Gesture : DEAF

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
188 0
0 17

For Gesture : DEAF

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
187 0
0 18

For Gesture : DEAF

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
175 0
20 10

For Gesture : DEAF

The Accuracy is : 9.024390e+01
The Precision is : 1
The Recall is : 3.333333e-01
The f1Score is : 5.000000e-01

DM : 15
Confusion Matrix:
183 0
22 0

For Gesture : DEAF

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
185 0
20 0

For Gesture : DEAF

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
188 0
17 0

For Gesture : DEAF

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
189 0
16 0

For Gesture : DEAF

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
189 0
16 0

For Gesture : DEAF

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
184 0
21 0

For Gesture : DEAF

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
191 0
14 0

For Gesture : DEAF

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
188 0
17 0

For Gesture : DEAF

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
187 0
18 0

For Gesture : DEAF

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
182 0
23 0

For Gesture : DEAF

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
185 0
20 0

For Gesture : DEAF

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
176 0
29 0

For Gesture : DEAF

The Accuracy is : 8.585366e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
174 0
31 0

For Gesture : DEAF

The Accuracy is : 8.487805e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
184 0
21 0

For Gesture : DEAF

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
184 0
21 0

For Gesture : DEAF

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
183 0
22 0

For Gesture : DEAF

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
190 0
15 0

For Gesture : DEAF

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
186 0
19 0

For Gesture : DEAF

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : DECIDE

DM : 11
Confusion Matrix:
191 0
0 14

For Gesture : DECIDE

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
192 0
0 13

For Gesture : DECIDE

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
173 0
0 32

For Gesture : DECIDE

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
190 0
8 7

For Gesture : DECIDE

The Accuracy is : 9.609756e+01
The Precision is : 1
The Recall is : 4.666667e-01
The f1Score is : 6.363636e-01

DM : 15
Confusion Matrix:
189 0
16 0

For Gesture : DECIDE

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
183 0
22 0

For Gesture : DECIDE

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
172 0
33 0

For Gesture : DECIDE

The Accuracy is : 8.390244e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
192 0
13 0

For Gesture : DECIDE

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
185 0
20 0

For Gesture : DECIDE

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
182 0
23 0

For Gesture : DECIDE

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
185 0
20 0

For Gesture : DECIDE

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
187 0
18 0

For Gesture : DECIDE

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
186 0
19 0

For Gesture : DECIDE

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
195 0
10 0

For Gesture : DECIDE

The Accuracy is : 9.512195e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
179 0
26 0

For Gesture : DECIDE

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
180 0
25 0

For Gesture : DECIDE

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
183 0
22 0

For Gesture : DECIDE

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
185 0
20 0

For Gesture : DECIDE

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
182 0
23 0

For Gesture : DECIDE

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
184 0
21 0

For Gesture : DECIDE

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
195 0
10 0

For Gesture : DECIDE

The Accuracy is : 9.512195e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
188 0
17 0

For Gesture : DECIDE

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
182 0
23 0

For Gesture : DECIDE

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
178 0
27 0

For Gesture : DECIDE

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
187 0
18 0

For Gesture : DECIDE

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
180 0
25 0

For Gesture : DECIDE

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
178 0
27 0

For Gesture : DECIDE

The Accuracy is : 8.682927e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : FATHER

DM : 11
Confusion Matrix:
184 0
0 21

For Gesture : FATHER

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
185 0
0 20

For Gesture : FATHER

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
195 0
0 10

For Gesture : FATHER

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
186 0
14 5

For Gesture : FATHER

The Accuracy is : 9.317073e+01
The Precision is : 1
The Recall is : 2.631579e-01
The f1Score is : 4.166667e-01

DM : 15
Confusion Matrix:
187 0
18 0

For Gesture : FATHER

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
183 0
22 0

For Gesture : FATHER

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
185 0
20 0

For Gesture : FATHER

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
193 0
12 0

For Gesture : FATHER

The Accuracy is : 9.414634e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
187 0
18 0

For Gesture : FATHER

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
182 0
23 0

For Gesture : FATHER

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
189 0
16 0

For Gesture : FATHER

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
188 0
17 0

For Gesture : FATHER

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
185 0
20 0

For Gesture : FATHER

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
189 1
15 0

For Gesture : FATHER

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
186 0
19 0

For Gesture : FATHER

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
185 0
20 0

For Gesture : FATHER

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
181 1
23 0

For Gesture : FATHER

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
192 0
13 0

For Gesture : FATHER

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
189 0
16 0

For Gesture : FATHER

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
183 0
22 0

For Gesture : FATHER

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
186 0
19 0

For Gesture : FATHER

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
182 0
23 0

For Gesture : FATHER

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
185 0
20 0

For Gesture : FATHER

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
179 0
26 0

For Gesture : FATHER

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
189 0
16 0

For Gesture : FATHER

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
187 0
18 0

For Gesture : FATHER

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
188 0
17 0

For Gesture : FATHER

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : FIND

DM : 11
Confusion Matrix:
186 0
0 19

For Gesture : FIND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
186 0
0 19

For Gesture : FIND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
185 0
0 20

For Gesture : FIND

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
182 0
19 4

For Gesture : FIND

The Accuracy is : 9.073171e+01
The Precision is : 1
The Recall is : 1.739130e-01
The f1Score is : 2.962963e-01

DM : 15
Confusion Matrix:
186 0
19 0

For Gesture : FIND

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
182 0
23 0

For Gesture : FIND

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
185 0
20 0

For Gesture : FIND

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
181 0
24 0

For Gesture : FIND

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
188 0
17 0

For Gesture : FIND

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
188 0
17 0

For Gesture : FIND

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
186 0
19 0

For Gesture : FIND

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
183 0
22 0

For Gesture : FIND

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
186 0
19 0

For Gesture : FIND

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
179 0
26 0

For Gesture : FIND

The Accuracy is : 8.731707e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
184 0
21 0

For Gesture : FIND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
182 0
23 0

For Gesture : FIND

The Accuracy is : 8.878049e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
185 0
20 0

For Gesture : FIND

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
184 0
21 0

For Gesture : FIND

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
189 0
16 0

For Gesture : FIND

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
187 0
18 0

For Gesture : FIND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
193 0
12 0

For Gesture : FIND

The Accuracy is : 9.414634e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
187 0
18 0

For Gesture : FIND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
186 0
19 0

For Gesture : FIND

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34
Confusion Matrix:
191 0
14 0

For Gesture : FIND

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
195 0
10 0

For Gesture : FIND

The Accuracy is : 9.512195e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
187 0
18 0

For Gesture : FIND

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
188 0
17 0

For Gesture : FIND

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

GESTURE : HEARING

DM : 11
Confusion Matrix:
184 0
0 21

For Gesture : HEARING

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 12
Confusion Matrix:
191 0
0 14

For Gesture : HEARING

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 13
Confusion Matrix:
187 0
0 18

For Gesture : HEARING

The Accuracy is : 100
The Precision is : 1
The Recall is : 1
The f1Score is : 1

DM : 14
Confusion Matrix:
183 0
18 4

For Gesture : HEARING

The Accuracy is : 9.121951e+01
The Precision is : 1
The Recall is : 1.818182e-01
The f1Score is : 3.076923e-01

DM : 15
Confusion Matrix:
183 0
22 0

For Gesture : HEARING

The Accuracy is : 8.926829e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 16
Confusion Matrix:
191 0
14 0

For Gesture : HEARING

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 17
Confusion Matrix:
190 0
15 0

For Gesture : HEARING

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 18
Confusion Matrix:
193 0
12 0

For Gesture : HEARING

The Accuracy is : 9.414634e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 19
Confusion Matrix:
184 0
21 0

For Gesture : HEARING

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 20
Confusion Matrix:
187 0
18 0

For Gesture : HEARING

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 21
Confusion Matrix:
187 0
18 0

For Gesture : HEARING

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 22
Confusion Matrix:
180 0
25 0

For Gesture : HEARING

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 23
Confusion Matrix:
192 0
13 0

For Gesture : HEARING

The Accuracy is : 9.365854e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 24
Confusion Matrix:
185 0
20 0

For Gesture : HEARING

The Accuracy is : 9.024390e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 25
Confusion Matrix:
181 0
24 0

For Gesture : HEARING

The Accuracy is : 8.829268e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 26
Confusion Matrix:
184 0
21 0

For Gesture : HEARING

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 27
Confusion Matrix:
187 0
18 0

For Gesture : HEARING

The Accuracy is : 9.121951e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 28
Confusion Matrix:
188 0
17 0

For Gesture : HEARING

The Accuracy is : 9.170732e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 29
Confusion Matrix:
190 0
15 0

For Gesture : HEARING

The Accuracy is : 9.268293e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 30
Confusion Matrix:
180 0

25 0

For Gesture : HEARING

The Accuracy is : 8.780488e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 31
Confusion Matrix:
186 0
19 0

For Gesture : HEARING

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 32
Confusion Matrix:
189 0
16 0

For Gesture : HEARING

The Accuracy is : 9.219512e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 33
Confusion Matrix:
184 0
21 0

For Gesture : HEARING

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 34

Confusion Matrix:
184 0
21 0

For Gesture : HEARING

The Accuracy is : 8.975610e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 35
Confusion Matrix:
191 0
14 0

For Gesture : HEARING

The Accuracy is : 9.317073e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 36
Confusion Matrix:
193 0
12 0

For Gesture : HEARING

The Accuracy is : 9.414634e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

DM : 37
Confusion Matrix:
186 0
19 0

For Gesture : HEARING

The Accuracy is : 9.073171e+01
The Precision is : 0
The Recall is : 0
The f1Score is : 0

Neural Network:

>> Neural_Network

For Gesture : ABOUT

The Accuracy is : 9.992532e+01
The Precision is : 9.936842e+01
The Recall is : 100
The f1 Score is : 9.968321e+01

For Gesture : AND

The Accuracy is : 9.997511e+01
The Precision is : 100
The Recall is : 9.975248e+01
The f1 Score is : 9.987608e+01

For Gesture : CAN

The Accuracy is : 9.997511e+01
The Precision is : 100
The Recall is : 9.975124e+01
The f1 Score is : 9.987547e+01

For Gesture : COP

The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

For Gesture : GOOUT
The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

For Gesture : DEAF
The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

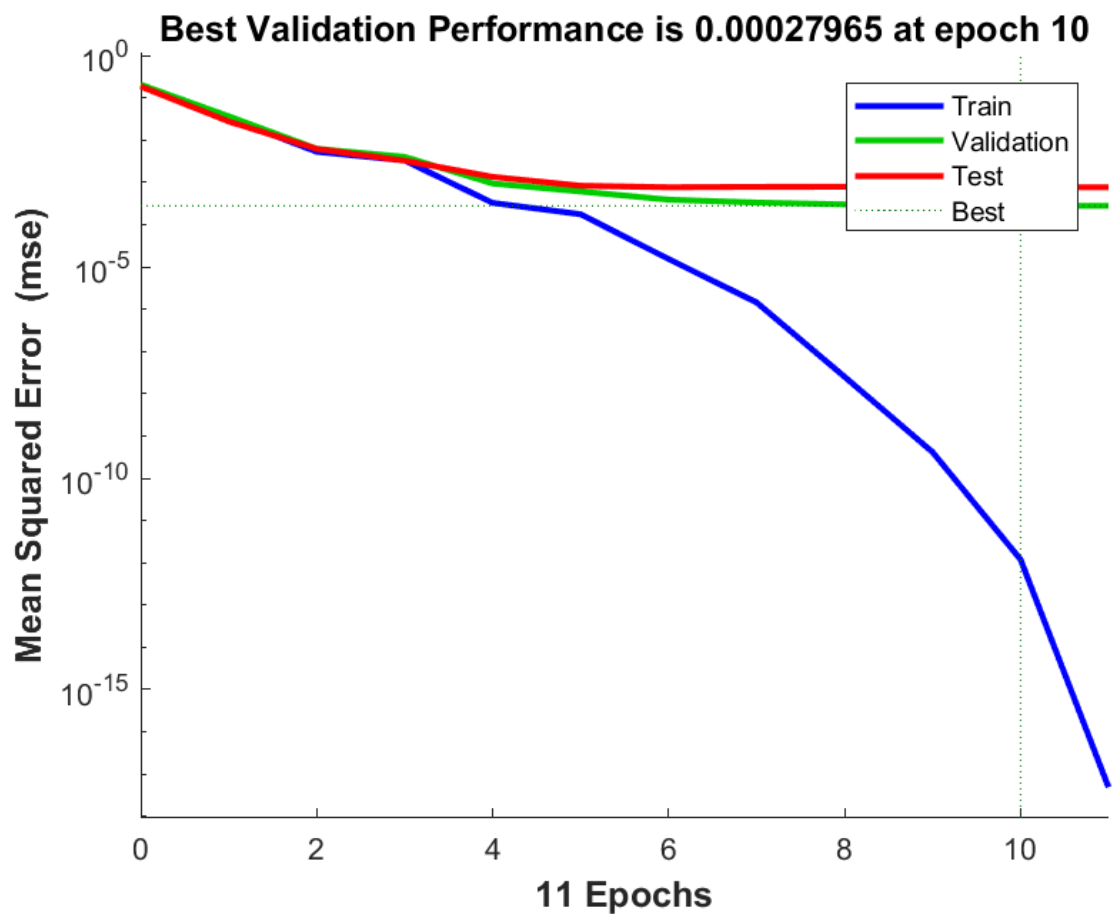
For Gesture : DECIDE
The Accuracy is : 9.997511e+01
The Precision is : 100
The Recall is : 9.973822e+01
The f1 Score is : 9.986894e+01

For Gesture : FATHER
The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

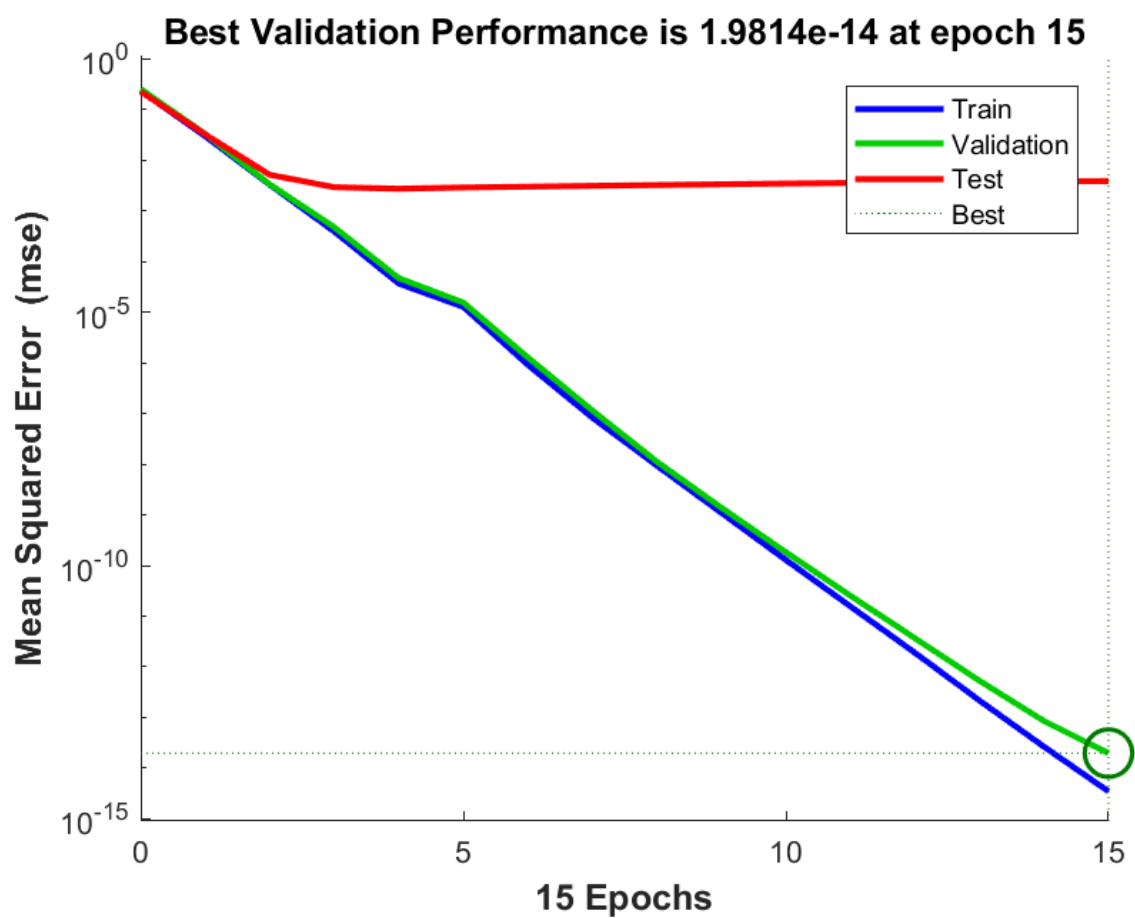
For Gesture : FIND
The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

For Gesture : HEARING
The Accuracy is : 100
The Precision is : 100
The Recall is : 100
The f1 Score is : 100

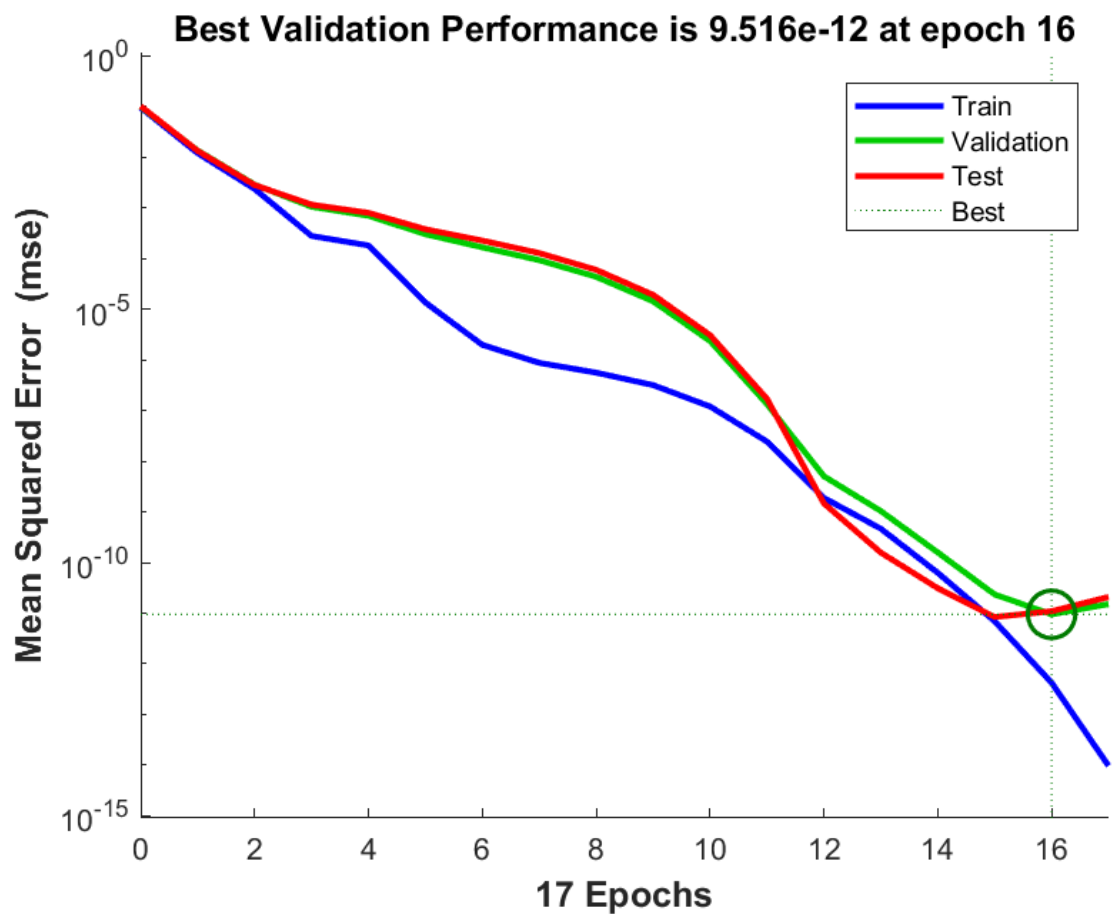
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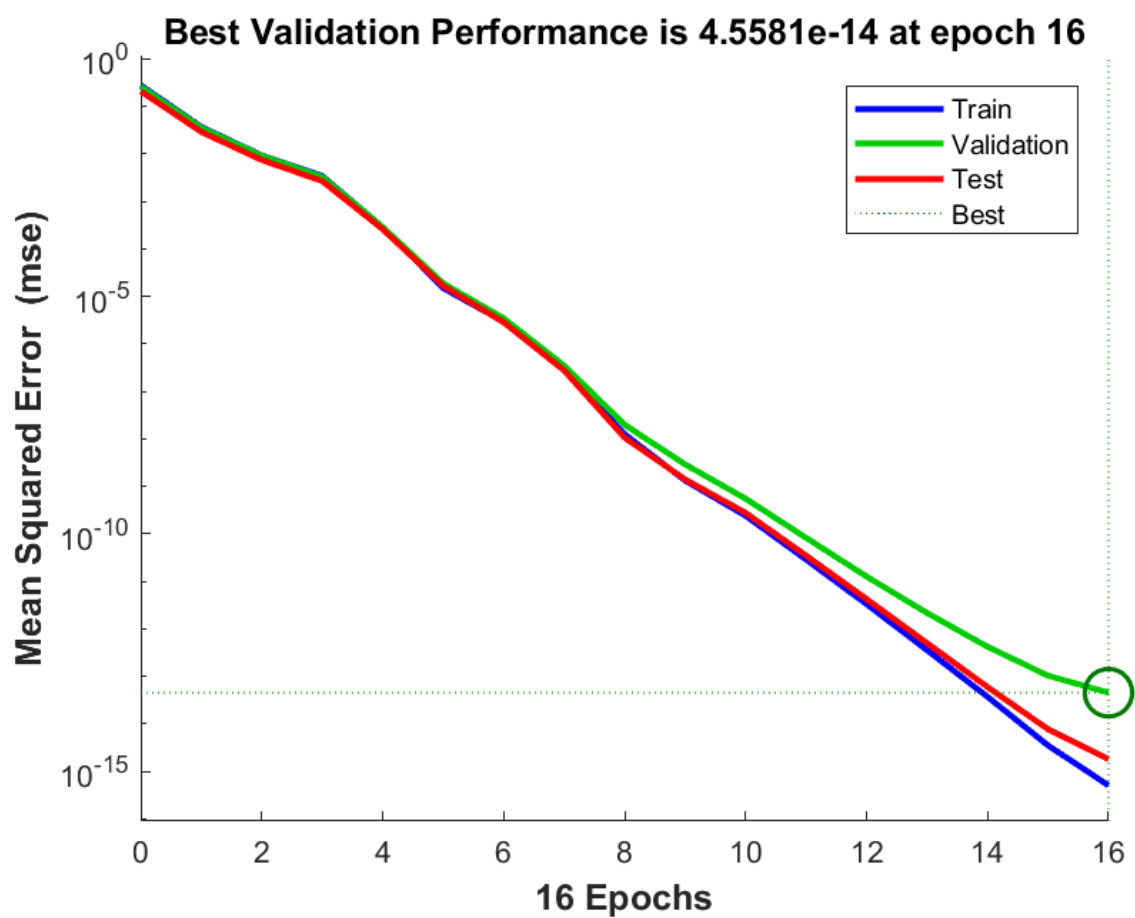
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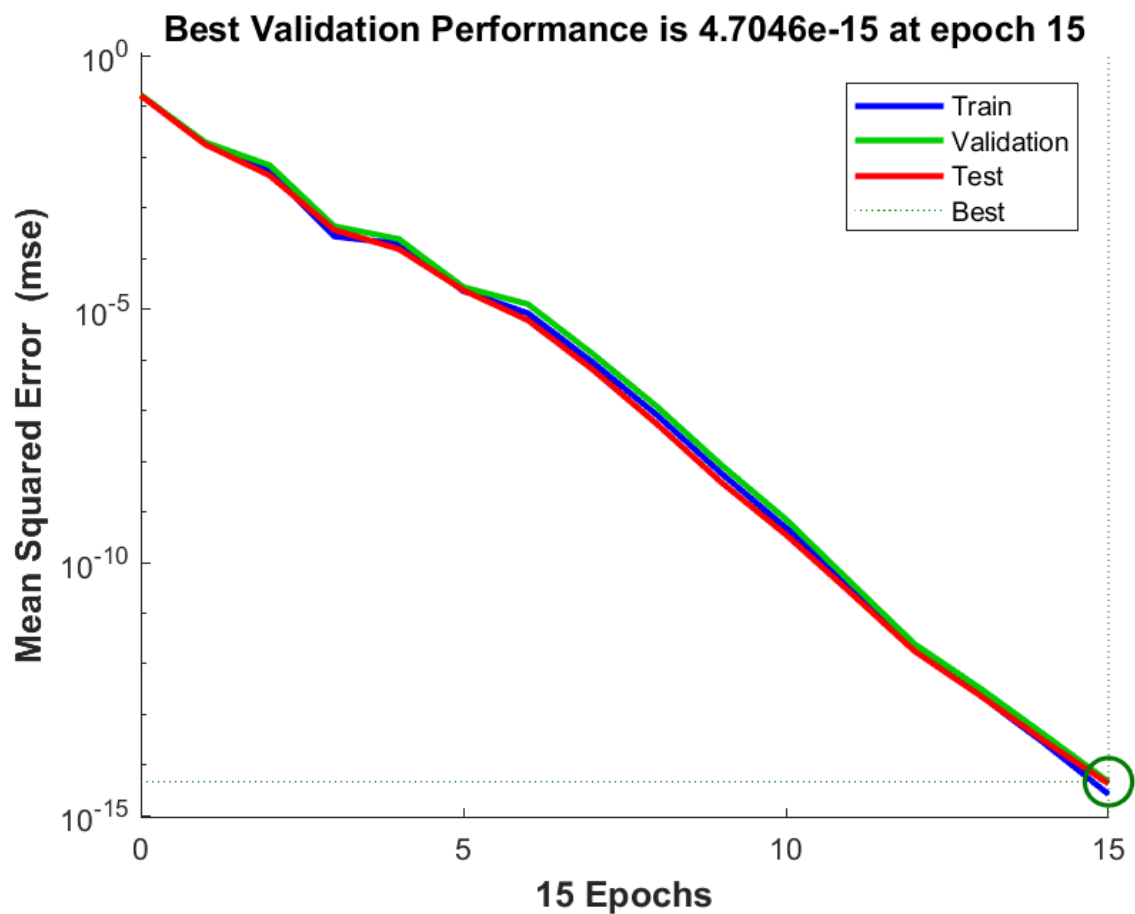
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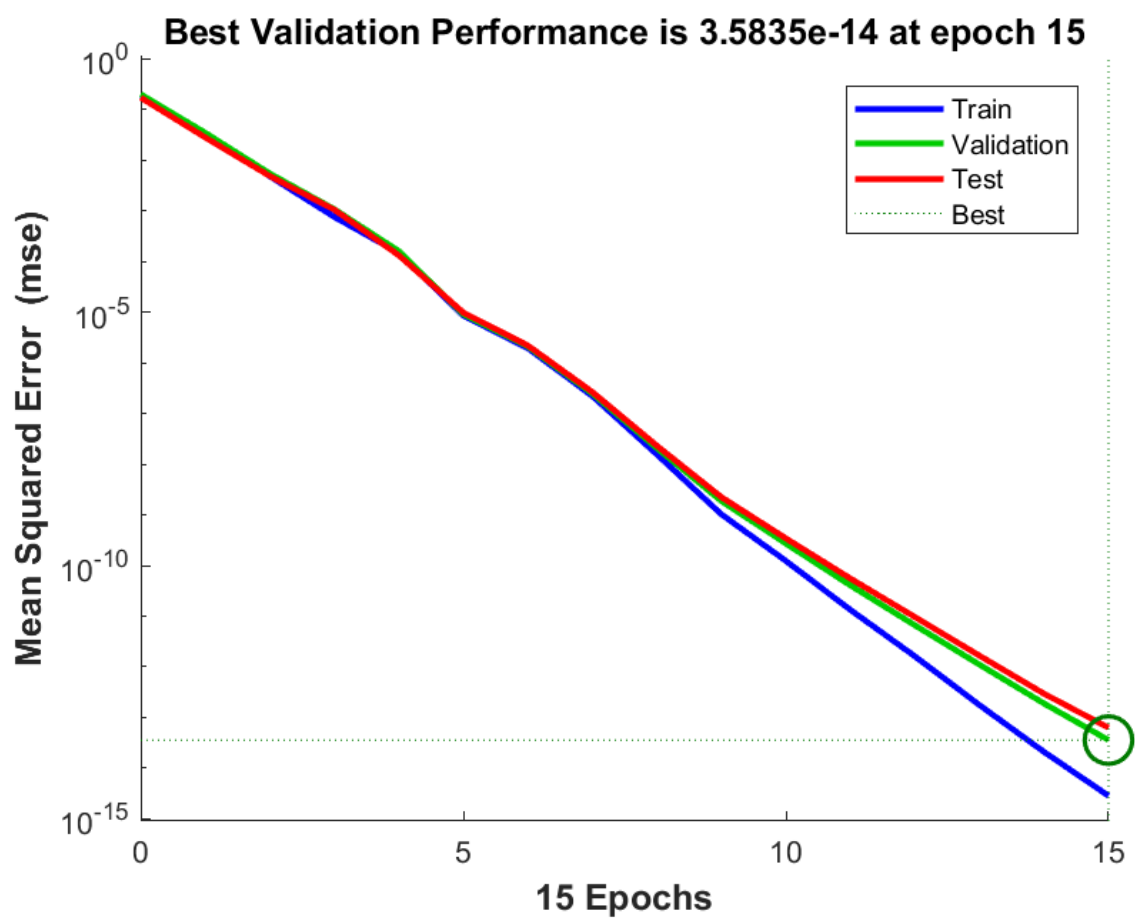
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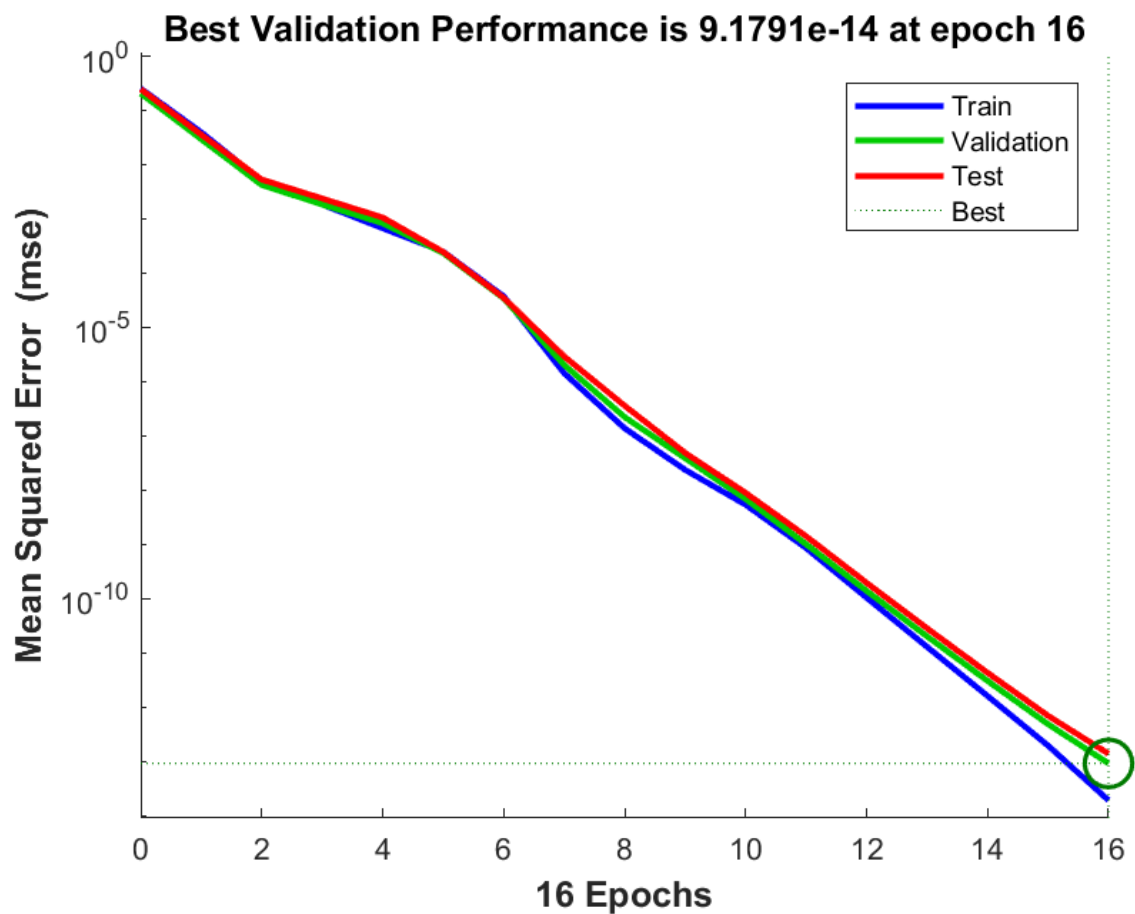
FATHER:



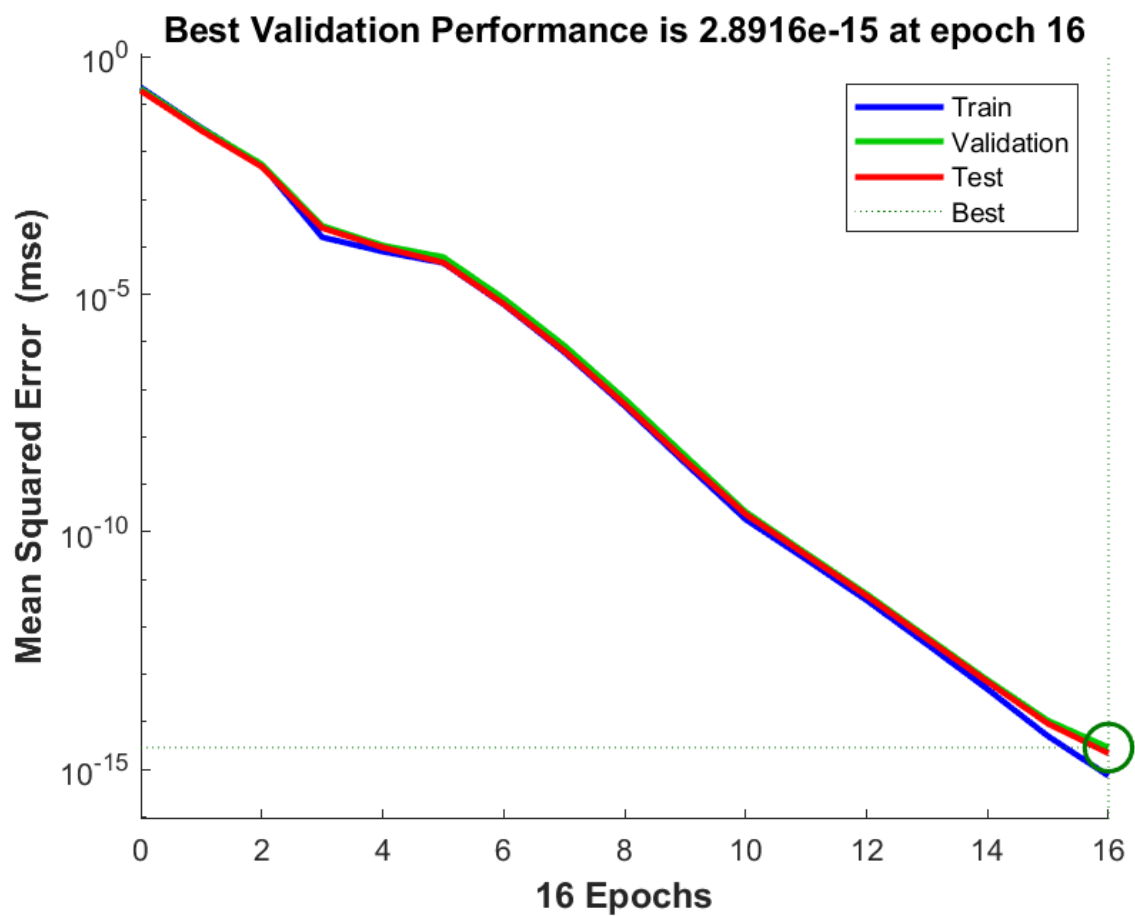
DECIDE :



DEAF:



GOOUT:



COP:

