* **Decision Tree Output:**

name: 'shuffle\_ABOUT.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : ABOUT

The sensitivity/Recall is : 9.866667e-01

The specificity is : 6.666667e-01

The accuracy is : 9.629630e-01

The tpr is : 9.866667e-01

The fpr is : 3.333333e-01

The precision is : 9.736842e-01

name: 'shuffle\_AND.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : AND

The sensitivity/Recall is : 1

The specificity is : 1

The accuracy is : 1

The tpr is : 1

The fpr is : 0

The precision is : 1

name: 'shuffle\_CAN.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : CAN

The sensitivity/Recall is : 9.736842e-01

The specificity is : 8.000000e-01

The accuracy is : 9.629630e-01

The tpr is : 9.736842e-01

The fpr is : 2.000000e-01

The precision is : 9.866667e-01

name: 'shuffle\_COP.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : COP

The sensitivity/Recall is : 9.859155e-01

The specificity is : 1

The accuracy is : 9.876543e-01

The tpr is : 9.859155e-01

The fpr is : 0

The precision is : 1

name: 'shuffle\_GOOUT.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : GOOUT

The sensitivity/Recall is : 1

The specificity is : 1

The accuracy is : 1

The tpr is : 1

The fpr is : 0

The precision is : 1

name: 'shuffle\_DEAF.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : DEAF

The sensitivity/Recall is : 9.864865e-01

The specificity is : 8.571429e-01

The accuracy is : 9.753086e-01

The tpr is : 9.864865e-01

The fpr is : 1.428571e-01

The precision is : 9.864865e-01

name: 'shuffle\_DECIDE.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : DECIDE

The sensitivity/Recall is : 1

The specificity is : 1

The accuracy is : 1

The tpr is : 1

The fpr is : 0

The precision is : 1

name: 'shuffle\_FATHER.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : FATHER

The sensitivity/Recall is : 1

The specificity is : 8.000000e-01

The accuracy is : 9.753086e-01

The tpr is : 1

The fpr is : 2.000000e-01

The precision is : 9.726027e-01

name: 'shuffle\_FIND.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : FIND

The sensitivity/Recall is : 1

The specificity is : 8.750000e-01

The accuracy is : 9.876543e-01

The tpr is : 1

The fpr is : 1.250000e-01

The precision is : 9.864865e-01

name: 'shuffle\_HEARING.csv'

folder: 'C:\Users\koush\Documents\ASU\Spring 2018\CSE 572\Assignment\Matlab Code\pca\_data'

date: '12-Apr-2018 22:55:47'

bytes: 66872

isdir: 0

datenum: 7.3716e+05

For gesture : HEARING

The sensitivity/Recall is : 1

The specificity is : 1

The accuracy is : 1

The tpr is : 1

The fpr is : 0

The precision is : 1

* **SVM :**

For Gesture : ABOUT

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : AND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : CAN

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : COP

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : GOOUT

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : DEAF

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : DECIDE

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : FATHER

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : FIND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : HEARING

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

* **Neural Network:**

For Gesture : ABOUT

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The NNf1Score is : 100

For Gesture : AND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : CAN

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : COP

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : GOOUT

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : DEAF

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : DECIDE

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : FATHER

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : FIND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

For Gesture : HEARING

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100