* **Decision Trees**

name: 'shuffle\_ABOUT.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : ABOUT

The sensitivity/Recall is : 9.852941e-01

The specificity is : 6.000000e-01

The accuracy is : 9.589041e-01

The tpr is : 9.852941e-01

The fpr is : 4.000000e-01

The precision is : 9.710145e-01

The F1 score is : 9.781022e-01

name: 'shuffle\_AND.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : AND

The sensitivity/Recall is : 1

The specificity is : 8.333333e-01

The accuracy is : 9.863014e-01

The tpr is : 1

The fpr is : 1.666667e-01

The precision is : 9.852941e-01

The F1 score is : 9.925926e-01

name: 'shuffle\_CAN.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : CAN

The sensitivity/Recall is : 9.365079e-01

The specificity is : 0

The accuracy is : 8.082192e-01

The tpr is : 9.365079e-01

The fpr is : 1

The precision is : 8.550725e-01

The F1 score is : 8.939394e-01

name: 'shuffle\_COP.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : COP

The sensitivity/Recall is : 1

The specificity is : 2.222222e-01

The accuracy is : 9.041096e-01

The tpr is : 1

The fpr is : 7.777778e-01

The precision is : 9.014085e-01

The F1 score is : 9.481481e-01

name: 'shuffle\_DEAF.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : DEAF

The sensitivity/Recall is : 9.696970e-01

The specificity is : 7.142857e-01

The accuracy is : 9.452055e-01

The tpr is : 9.696970e-01

The fpr is : 2.857143e-01

The precision is : 9.696970e-01

The F1 score is : 9.696970e-01

name: 'shuffle\_DECIDE.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : DECIDE

The sensitivity/Recall is : 9.365079e-01

The specificity is : 3.000000e-01

The accuracy is : 8.493151e-01

The tpr is : 9.365079e-01

The fpr is : 7.000000e-01

The precision is : 8.939394e-01

The F1 score is : 9.147287e-01

name: 'shuffle\_FATHER.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : FATHER

The sensitivity/Recall is : 1

The specificity is : 7.272727e-01

The accuracy is : 9.589041e-01

The tpr is : 1

The fpr is : 2.727273e-01

The precision is : 9.538462e-01

The F1 score is : 9.763780e-01

name: 'shuffle\_FIND.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : FIND

The sensitivity/Recall is : 8.382353e-01

The specificity is : 4.000000e-01

The accuracy is : 8.082192e-01

The tpr is : 8.382353e-01

The fpr is : 6.000000e-01

The precision is : 9.500000e-01

The F1 score is : 8.906250e-01

name: 'shuffle\_HEARING.csv'

folder: '/Users/nikitabahl/Downloads/CSE572\_A2\_data/DM26/pca\_data'

date: '12-Apr-2018 19:38:14'

bytes: 61088

isdir: 0

datenum: 7.3716e+05

For gesture : HEARING

The sensitivity/Recall is : 9.552239e-01

The specificity is : 0

The accuracy is : 8.767123e-01

The tpr is : 9.552239e-01

The fpr is : 1

The precision is : 9.142857e-01

The F1 score is : 9.343066e-01

* **Neural Network**

For Gesture : ABOUT

The Accuracy is : 9.833333e+01

The Precision is : 100

The Recall is : 9.833333e+01

The f1 Score is : 9.915966e+01

For Gesture : AND

The Accuracy is : 9.375000e+01

The Precision is : 100

The Recall is : 9.375000e+01

The f1 Score is : 9.677419e+01

For Gesture : CAN

The Accuracy is : 9.827586e+01

The Precision is : 100

The Recall is : 9.827586e+01

The f1 Score is : 9.913043e+01

For Gesture : COP

The Accuracy is : 9.516129e+01

The Precision is : 100

The Recall is : 9.516129e+01

The f1 Score is : 9.752066e+01

For Gesture : DEAF

The Accuracy is : 9.027778e+01

The Precision is : NaN

The Recall is : 0

The f1 Score is : NaN

For Gesture : DECIDE

The Accuracy is : 9.833333e+01

The Precision is : 100

The Recall is : 9.833333e+01

The f1 Score is : 9.915966e+01

For Gesture : FATHER

The Accuracy is : 8.472222e+01

The Precision is : 0

The Recall is : 0

The f1 Score is : NaN

For Gesture : FIND

The Accuracy is : 9.803922e+01

The Precision is : 100

The Recall is : 9.803922e+01

The f1 Score is : 9.900990e+01

For Gesture : HEARING

The Accuracy is : 8.472222e+01

The Precision is : 0

The Recall is : 0

The f1 Score is : NaN

* **SVM**

name: 'all\_data\_ABOUT.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_AND.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_CAN.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_COP.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_DEAF.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_DECIDE.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_FATHER.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_FIND.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

name: 'all\_data\_HEARING.csv'

folder: '/Users/sanaydevi/Desktop/Assignment\_3/Matlab\_Code/pca\_data'

date: '12-Apr-2018 15:18:53'

bytes: 62043

isdir: 0

datenum: 7.3716e+05

>> SVM

Confusion Matrix : ABOUT

65 0

0 7

For Gesture : ABOUT

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : AND

63 0

0 9

For Gesture : AND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : CAN

68 0

0 4

For Gesture : CAN

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : COP

65 0

0 7

For Gesture : COP

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : DEAF

65 0

0 7

For Gesture : DEAF

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : DECIDE

66 0

0 6

For Gesture : DECIDE

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : FATHER

63 0

0 9

For Gesture : FATHER

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : FIND

60 0

0 12

For Gesture : FIND

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100

Confusion Matrix : HEARING

63 0

0 9

For Gesture : HEARING

The Accuracy is : 100

The Precision is : 100

The Recall is : 100

The f1Score is : 100