Results full data with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[78 10]  [17 47]]  Accuracy, Sensitivity, Specificity:  [82.24 82.11 82.46] | **Confusion matrix:**  **[[81 7]**  **[12 52]]**  **Accuracy, Sensitivity, Specificity:**  **[87.5 87.1 88.14]** |
| INIT | Confusion matrix:  [[84 4]  [63 1]]  Accuracy, Sensitivity, Specificity:  [55.92 57.14 20.00] | Confusion matrix:  [[68 20]  [49 15]]  Accuracy, Sensitivity, Specificity:  [54.61 58.12 42.86] |
| ICA | Confusion matrix:  [[75 13]  [61 3]]  Accuracy, Sensitivity, Specificity:  [51.32 55.15 18.75] | Confusion matrix:  [[75 13]  [61 3]]  Accuracy, Sensitivity, Specificity:  [51.32 55.15 18.75] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0. ] |

Results full data with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[64 0]  [24 8]]  Accuracy, Sensitivity, Specificity:  [ 75.00 72.73 100.00] | **Confusion matrix:**  **[[56 8]**  **[ 4 28]]**  **Accuracy, Sensitivity, Specificity:**  **[87.5 93.33 77.78]** |
| INIT | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |
| ICA | Confusion matrix:  [[59 5]  [31 1]]  Accuracy, Sensitivity, Specificity:  [62.50 65.56 16.67] | Confusion matrix:  [[64 0]  [31 1]]  Accuracy, Sensitivity, Specificity:  [ 67.71 67.37 100.00] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |

Results time series features with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[73 15]  [23 41]]  Accuracy, Sensitivity, Specificity:  [75.00 76.04 73.21] | **Confusion matrix:**  **[[75 13]**  **[13 51]]**  **Accuracy, Sensitivity, Specificity:**  **[82.89 85.23 79.69]** |
| INIT | Confusion matrix:  [[82 6]  [53 11]]  Accuracy, Sensitivity, Specificity:  [61.18 60.74 64.71] | Confusion matrix:  [[72 16]  [44 20]]  Accuracy, Sensitivity, Specificity:  [60.53 62.07 55.56] |
| ICA | Confusion matrix:  [[71 17]  [51 13]]  Accuracy, Sensitivity, Specificity:  [55.26 58.2 43.33] | Confusion matrix:  [[56 32]  [21 43]]  Accuracy, Sensitivity, Specificity:  [65.13 72.73 57.33] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0.00] |

Results time series features with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[58 6]  [16 16]]  Accuracy, Sensitivity, Specificity:  [77.08 78.38 72.73] | Confusion matrix:  [[56 8]  [14 18]]  Accuracy, Sensitivity, Specificity:  [77.08 80.00 69.23] |
| INIT | Confusion matrix:  [[62 2]  [29 3]]  Accuracy, Sensitivity, Specificity:  [67.71 68.13 60.00] | Confusion matrix:  [[63 1]  [28 4]]  Accuracy, Sensitivity, Specificity:  [69.79 69.23 80.00] |
| ICA | Confusion matrix:  [[55 9]  [30 2]]  Accuracy, Sensitivity, Specificity:  [59.38 64.71 18.18] | Confusion matrix:  [[61 3]  [28 4]]  Accuracy, Sensitivity, Specificity:  [67.71 68.54 57.14] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |

Results fractal features with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[73 15]  [23 41]]  Accuracy, Sensitivity, Specificity:  [75.00 76.04 73.21] | **SVM:**  **Confusion matrix:**  **[[75 13]**  **[13 51]]**  **Accuracy, Sensitivity, Specificity:**  **[82.89 85.23 79.69]** |
| INIT | Confusion matrix:  [[82 6]  [53 11]]  Accuracy, Sensitivity, Specificity:  [61.18 60.74 64.71] | Confusion matrix:  [[72 16]  [44 20]]  Accuracy, Sensitivity, Specificity:  [60.53 62.07 55.56] |
| ICA | Confusion matrix:  [[71 17]  [51 13]]  Accuracy, Sensitivity, Specificity:  [55.26 58.2 43.33] | Confusion matrix:  [[56 32]  [21 43]]  Accuracy, Sensitivity, Specificity:  [65.13 72.73 57.33] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0.00] |

Results fractal features with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[58 6]  [16 16]]  Accuracy, Sensitivity, Specificity:  [77.08 78.38 72.73] | Confusion matrix:  [[56 8]  [14 18]]  Accuracy, Sensitivity, Specificity:  [77.08 80.00 69.23] |
| INIT | Confusion matrix:  [[62 2]  [29 3]]  Accuracy, Sensitivity, Specificity:  [67.71 68.13 60.00] | Confusion matrix:  [[63 1]  [28 4]]  Accuracy, Sensitivity, Specificity:  [69.79 69.23 80.00] |
| ICA | Confusion matrix:  [[55 9]  [30 2]]  Accuracy, Sensitivity, Specificity:  [59.38 64.71 18.18] | Confusion matrix:  [[61 3]  [28 4]]  Accuracy, Sensitivity, Specificity:  [67.71 68.54 57.14] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |

Results entropy features with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[73 15]  [23 41]]  Accuracy, Sensitivity, Specificity:  [75.00 76.04 73.21] | **Confusion matrix:**  **[[75 13]**  **[13 51]]**  **Accuracy, Sensitivity, Specificity:**  **[82.89 85.23 79.69]** |
| INIT | Confusion matrix:  [[82 6]  [53 11]]  Accuracy, Sensitivity, Specificity:  [61.18 60.74 64.71] | Confusion matrix:  [[72 16]  [44 20]]  Accuracy, Sensitivity, Specificity:  [60.53 62.07 55.56] |
| ICA | Confusion matrix:  [[71 17]  [51 13]]  Accuracy, Sensitivity, Specificity:  [55.26 58.20 43.33] | Confusion matrix:  [[56 32]  [21 43]]  Accuracy, Sensitivity, Specificity:  [65.13 72.73 57.33] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0.00] |

Results entropy features with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[58 6]  [16 16]]  Accuracy, Sensitivity, Specificity:  [77.08 78.38 72.73] | Confusion matrix:  [[56 8]  [14 18]]  Accuracy, Sensitivity, Specificity:  [77.08 80. 69.23] |
| INIT | Confusion matrix:  [[62 2]  [29 3]]  Accuracy, Sensitivity, Specificity:  [67.71 68.13 60. ] | Confusion matrix:  [[63 1]  [28 4]]  Accuracy, Sensitivity, Specificity:  [69.79 69.23 80. ] |
| ICA | Confusion matrix:  [[55 9]  [30 2]]  Accuracy, Sensitivity, Specificity:  [59.38 64.71 18.18] | Confusion matrix:  [[61 3]  [28 4]]  Accuracy, Sensitivity, Specificity:  [67.71 68.54 57.14] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |

Results hjorth features with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[73 15]  [23 41]]  Accuracy, Sensitivity, Specificity:  [75. 76.04 73.21] | **Confusion matrix:**  **[[75 13]**  **[13 51]]**  **Accuracy, Sensitivity, Specificity:**  **[82.89 85.23 79.69]** |
| INIT | Confusion matrix:  [[82 6]  [53 11]]  Accuracy, Sensitivity, Specificity:  [61.18 60.74 64.71] | Confusion matrix:  [[72 16]  [44 20]]  Accuracy, Sensitivity, Specificity:  [60.53 62.07 55.56] |
| ICA | Confusion matrix:  [[71 17]  [51 13]]  Accuracy, Sensitivity, Specificity:  [55.26 58.2 43.33] | Confusion matrix:  [[56 32]  [21 43]]  Accuracy, Sensitivity, Specificity:  [65.13 72.73 57.33] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0.00] |

Results hjorth features with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[58 6]  [16 16]]  Accuracy, Sensitivity, Specificity:  [77.08 78.38 72.73] | Confusion matrix:  [[56 8]  [14 18]]  Accuracy, Sensitivity, Specificity:  [77.08 80.00 69.23] |
| INIT | Confusion matrix:  [[62 2]  [29 3]]  Accuracy, Sensitivity, Specificity:  [67.71 68.13 60.00] | Confusion matrix:  [[63 1]  [28 4]]  Accuracy, Sensitivity, Specificity:  [69.79 69.23 80.00] |
| ICA | Confusion matrix:  [[55 9]  [30 2]]  Accuracy, Sensitivity, Specificity:  [59.38 64.71 18.18] | Confusion matrix:  [[61 3]  [28 4]]  Accuracy, Sensitivity, Specificity:  [67.71 68.54 57.14] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |

Results freq band features with STAI labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[73 15]  [23 41]]  Accuracy, Sensitivity, Specificity:  [75. 76.04 73.21] | **Confusion matrix:**  **[[75 13]**  **[13 51]]**  **Accuracy, Sensitivity, Specificity:**  **[82.89 85.23 79.69]** |
| INIT | Confusion matrix:  [[82 6]  [53 11]]  Accuracy, Sensitivity, Specificity:  [61.18 60.74 64.71] | Confusion matrix:  [[72 16]  [44 20]]  Accuracy, Sensitivity, Specificity:  [60.53 62.07 55.56] |
| ICA | Confusion matrix:  [[71 17]  [51 13]]  Accuracy, Sensitivity, Specificity:  [55.26 58.2 43.33] | Confusion matrix:  [[56 32]  [21 43]]  Accuracy, Sensitivity, Specificity:  [65.13 72.73 57.33] |
| NEW\_ICA | Confusion matrix:  [[72 16]  [56 8]]  Accuracy, Sensitivity, Specificity:  [52.63 56.25 33.33] | Confusion matrix:  [[88 0]  [64 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [57.89 57.89 0.00] |

Results freq band features with PSS labels

|  |  |  |
| --- | --- | --- |
|  | KNN | SVM |
| RAW | Confusion matrix:  [[58 6]  [16 16]]  Accuracy, Sensitivity, Specificity:  [77.08 78.38 72.73] | Confusion matrix:  [[56 8]  [14 18]]  Accuracy, Sensitivity, Specificity:  [77.08 80.00 69.23] |
| INIT | Confusion matrix:  [[62 2]  [29 3]]  Accuracy, Sensitivity, Specificity:  [67.71 68.13 60.00] | Confusion matrix:  [[63 1]  [28 4]]  Accuracy, Sensitivity, Specificity:  [69.79 69.23 80.00] |
| ICA | Confusion matrix:  [[55 9]  [30 2]]  Accuracy, Sensitivity, Specificity:  [59.38 64.71 18.18] | Confusion matrix:  [[61 3]  [28 4]]  Accuracy, Sensitivity, Specificity:  [67.71 68.54 57.14] |
| NEW\_ICA | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] | Confusion matrix:  [[64 0]  [32 0]]  Null error in specificity  Accuracy, Sensitivity, Specificity:  [66.67 66.67 0.00] |