One-Second Epoch Size Confusion Matrix Results with 8 features Selection**.**

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| --- | --- | --- |
| **Feature Name** | **Classes Name** | **SVM** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 11980 | 421 |
| Healthy | 689 | 11157 |
| ApEn | Actual Class | Sch | 9564 | 1456 |
| Healthy | 2829 | 10040 |
| ApEn+ Band-pass | Actual Class | Sch | 11987 | 2013 |
| Healthy | 2151 | 1750 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 11950 | 1921 |
| Healthy | 3286 | 10011 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 11341 | 241 |
| Healthy | 59 | 10451 |
| Kurtosis+ Band-pass | Actual Class | Sch | 9890 | 2798 |
| Healthy | 5899 | 9112 |
| **Feature Name** | **Classes Name** | **KNN** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 11521 | 549 |
| Healthy | 563 | 9165 |
| ApEn | Actual Class | Sch | 5718 | 1180 |
| Healthy | 1452 | 6183 |
| ApEn+ Band-pass | Actual Class | Sch | 6891 | 1843 |
| Healthy | 3133 | 5071 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 10203 | 451 |
| Healthy | 667 | 10512 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 11560 | 130 |
| Healthy | 122 | 11912 |
| Kurtosis+ Band-pass | Actual Class | Sch | 8534 | 4201 |
| Healthy | 5823 | 9123 |
| **Feature Name** | **Classes Name** | **QDA** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 10871 | 865 |
| Healthy | 1419 | 11431 |
| ApEn | Actual Class | Sch | 10120 | 1401 |
| Healthy | 4152 | 2729 |
| ApEn+ Band-pass | Actual Class | Sch | 6498 | 7354 |
| Healthy | 810 | 11615 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 6797 | 65 |
| Healthy | 6412 | 2881 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 11198 | 54 |
| Healthy | 1171 | 11192 |
| Kurtosis+ Band-pass | Actual Class | Sch | 12289 | 126 |
| Healthy | 13451 | 1201 |
| **Feature Name** | **Classes Name** | **Ensemble** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 6102 | 128 |
| Healthy | 412 | 5813 |
| ApEn | Actual Class | Sch | 9687 | 1256 |
| Healthy | 2543 | 5647 |
| ApEn+ Band-pass | Actual Class | Sch | 7432 | 1187 |
| Healthy | 1691 | 1611 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 11982 | 142 |
| Healthy | 412 | 13641 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 12756 | 121 |
| Healthy | 131 | 11651 |
| Kurtosis+ Band-pass | Actual Class | Sch | 10231 | 2432 |
| Healthy | 5413 | 7044 |