Table S12. Five-Second Epoch Size Confusion Matrix Results with SNR augmented method

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| --- | --- | --- | --- |
| **Classifier** | **Feature Name** | **Classes Name** | **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 150 | 3015 |
| Healthy | 2441 | 164 |
| ApEn | Actual Class | Sch | 255 | 2940 |
| Healthy | 2341 | 264 |
| ApEn+ Band-pass | Actual Class | Sch | 375 | 2790 |
| Healthy | 2237 | 368 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 406 | 2759 |
| Healthy | 2505 | 100 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4 | 3161 |
| Healthy | 2603 | 2 |
| Kurtosis+ Band-pass | Actual Class | Sch | 818 | 2347 |
| Healthy | 1790 | 815 |
| KNN | FFT | Actual Class | Sch | 158 | 3007 |
| Healthy | 2344 | 261 |
| ApEn | Actual Class | Sch | 253 | 2912 |
| Healthy | 2323 | 282 |
| ApEn+ Band-pass | Actual Class | Sch | 476 | 2689 |
| Healthy | 2156 | 449 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 60 | 3105 |
| Healthy | 2523 | 82 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 5 | 3160 |
| Healthy | 2597 | 8 |
| Kurtosis+ Band-pass | Actual Class | Sch | 964 | 2201 |
| Healthy | 1504 | 1101 |
| QDA | FFT | Actual Class | Sch | 204 | 2961 |
| Healthy | 2429 | 176 |
| ApEn | Actual Class | Sch | 320 | 2845 |
| Healthy | 1655 | 950 |
| ApEn+ Band-pass | Actual Class | Sch | 869 | 2296 |
| Healthy | 2279 | 326 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 1316 | 1849 |
| Healthy | 2523 | 82 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 2 | 3163 |
| Healthy | 2605 | 0 |
| Kurtosis+ Band-pass | Actual Class | Sch | 638 | 2527 |
| Healthy | 923 | 1682 |
| QDA | FFT | Actual Class | Sch | 113 | 3052 |
| Healthy | 2460 | 145 |
| ApEn | Actual Class | Sch | 244 | 2921 |
| Healthy | 2400 | 205 |
| ApEn+ Band-pass | Actual Class | Sch | 432 | 2733 |
| Healthy | 2392 | 213 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 12 | 3153 |
| Healthy | 2586 | 19 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4 | 3161 |
| Healthy | 2599 | 6 |
| Kurtosis+ Band-pass | Actual Class | Sch | 999 | 2166 |
| Healthy | 1990 | 615 |