[INSERT Table S3. One-Second Epoch Size Confusion Matrix Results with Stretch.]

|  |  |  |  |
| --- | --- | --- | --- |
| **Classifier** | **Feature Name** | **Classes Name** | **Predicted Class** |
| SVM | FFT | Actual Class | Sch | 471 | 17081 |
| Healthy | 15240 | 395 |
| ApEn | Actual Class | Sch | 1119 | 17879 |
| Healthy | 14171 | 1464 |
| ApEn+ Band-pass | Actual Class | Sch | 5147 | 13851 |
| Healthy | 13722 | 1913 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 3680 | 15318 |
| Healthy | 14847 | 788 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 153 | 18845 |
| Healthy | 15537 | 98 |
| Kurtosis+ Band-pass | Actual Class | Sch | 6368 | 12630 |
| Healthy | 12954 | 2681 |
| KNN | FFT | Actual Class | Sch | 959 | 16593 |
| Healthy | 14922 | 713 |
| ApEn | Actual Class | Sch | 1193 | 17805 |
| Healthy | 13618 | 2017 |
| ApEn+ Band-pass | Actual Class | Sch | 9138 | 9860 |
| Healthy | 14896 | 739 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 1205 | 17793 |
| Healthy | 14729 | 906 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 317 | 18681 |
| Healthy | 15494 | 141 |
| Kurtosis+ Band-pass | Actual Class | Sch | 5530 | 13468 |
| Healthy | 10520 | 5115 |
| QDA | FFT | Actual Class | Sch | 1588 | 15964 |
| Healthy | 14914 | 721 |
| ApEn | Actual Class | Sch | 4251 | 14747 |
| Healthy | 13568 | 2067 |
| ApEn+ Band-pass | Actual Class | Sch | 9670 | 9328 |
| Healthy | 15413 | 222 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 12322 | 6676 |
| Healthy | 15386 | 249 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1209 | 17789 |
| Healthy | 15565 | 70 |
| Kurtosis+ Band-pass | Actual Class | Sch | 17099 | 1899 |
| Healthy | 15366 | 269 |
| EC | FFT | Actual Class | Sch | 754 | 16798 |
| Healthy | 15226 | 409 |
| ApEn | Actual Class | Sch | 1598 | 17400 |
| Healthy | 14134 | 1501 |
| ApEn+ Band-pass | Actual Class | Sch | 6903 | 12095 |
| Healthy | 14631 | 1004 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 495 | 18503 |
| Healthy | 15388 | 247 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 145 | 18853 |
| Healthy | 15581 | 54 |
| Kurtosis+ Band-pass | Actual Class | Sch | 6507 | 12491 |
| Healthy | 13114 | 2521 |