Five-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 | 2121 | 199 |
| Healthy | 132 | 1981 |
| ApEn | Actual Class | Sch | 1265 | 116 |
| Healthy | 88 | 1675 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 1879 | 189 |
| Healthy | 231 | 1989 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 1768 | 123 |
| Healthy | 614 | 1799 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1354 | 11 |
| Healthy | 33 | 1678 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1981 | 476 |
| Healthy | 763 | 1493 |
| **Feature Name** | **Classes Name** | **KNN** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 5098 | 449 |
| Healthy | 391 | 6111 |
| ApEn | Actual Class | Sch | 2301 | 177 |
| Healthy | 137 | 2101 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 2150 | 211 |
| Healthy | 428 | 2181 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2154 | 45 |
| Healthy | 111 | 2764 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1021 | 7 |
| Healthy | 14 | 1036 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1611 | 798 |
| Healthy | 880 | 2149 |
| **Feature Name** | **Classes Name** | **QDA** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 2132 | 331 |
| Healthy | 215 | 2161 |
| ApEn | Actual Class | Sch | 1355 | 461 |
| Healthy | 215 | 1172 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 2782 | 133 |
| Healthy | 1621 | 2721 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2154 | 69 |
| Healthy | 1422 | 1167 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 2599 | 6 |
| Healthy | 6 | 1589 |
| Kurtosis+ Band-pass | Actual Class | Sch | 2132 | 298 |
| Healthy | 2211 | 959 |
| **Feature Name** | **Classes Name** | **Ensemble** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 1376 | 109 |
| Healthy | 78 | 2091 |
| ApEn | Actual Class | Sch | 2113 | 123 |
| Healthy | 209 | 1190 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 2421 | 98 |
| Healthy | 255 | 2128 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2433 | 90 |
| Healthy | 58 | 2989 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1789 | 11 |
| Healthy | 34 | 2143 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1176 | 256 |
| Healthy | 628 | 1798 |