Five-Second Epoch Size Confusion Matrix Results with 5 features Selection**.**

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| --- | --- | --- |
| **Feature Name** | **Classes Name** | **SVM** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 1283 | 121 |
| Healthy | 230 | 1462 |
| ApEn | Actual Class | Sch | 2101 | 235 |
| Healthy | 356 | 1481 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 2114 | 190 |
| Healthy | 290 | 1156 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2151 | 133 |
| Healthy | 845 | 1122 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4966 | 40 |
| Healthy | 98 | 4987 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1290 | 403 |
| Healthy | 908 | 1990 |
| **Feature Name** | **Classes Name** | **KNN** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 2161 | 213 |
| Healthy | 230 | 2235 |
| ApEn | Actual Class | Sch | 2011 | 430 |
| Healthy | 390 | 2583 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 1824 | 394 |
| Healthy | 413 | 2111 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2276 | 67 |
| Healthy | 171 | 2390 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1987 | 11 |
| Healthy | 81 | 2109 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1543 | 632 |
| Healthy | 1033 | 1567 |
| **Feature Name** | **Classes Name** | **QDA** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 1879 | 313 |
| Healthy | 390 | 1421 |
| ApEn | Actual Class | Sch | 1092 | 1232 |
| Healthy | 520 | 2199 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 1113 | 43 |
| Healthy | 499 | 213 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2141 | 322 |
| Healthy | 975 | 1231 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 1212 | 21 |
| Healthy | 190 | 1119 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1987 | 342 |
| Healthy | 1620 | 717 |
| **Feature Name** | **Classes Name** | **Ensemble** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 1181 | 162 |
| Healthy | 170 | 2113 |
| ApEn | Actual Class | Sch | 1111 | 324 |
| Healthy | 423 | 2003 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 2133 | 201 |
| Healthy | 415 | 2311 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 2341 | 36 |
| Healthy | 43 | 1189 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 2132 | 26 |
| Healthy | 21 | 2456 |
| Kurtosis+ Band-pass | Actual Class | Sch | 1762 | 412 |
| Healthy | 883 | 1751 |