Two-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 | 5194 | 533 |
| Healthy | 679 | 7356 |
| ApEn | Actual Class | Sch | 5101 | 1210 |
| Healthy | 1100 | 6423 |
| ApEn\_Entropy+Band-pass | Actual Class | Sch | 4054 | 933 |
| Healthy | 801 | 4211 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5152 | 465 |
| Healthy | 3010 | 3976 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4025 | 34 |
| Healthy | 77 | 4041 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4085 | 1601 |
| Healthy | 1958 | 4439 |
| **Feature Name** | **Classes Name** | **KNN** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 5467 | 587 |
| Healthy | 765 | 6859 |
| ApEn | Actual Class | Sch | 5912 | 1121 |
| Healthy | 1225 | 5198 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 5911 | 512 |
| Healthy | 3210 | 4120 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5748 | 321 |
| Healthy | 411 | 5439 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 6321 | 125 |
| Healthy | 132 | 6534 |
| Kurtosis+ Band-pass | Actual Class | Sch | 3212 | 57 |
| Healthy | 2197 | 554 |
| **Feature Name** | **Classes Name** | **QDA** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 5283 | 982 |
| Healthy | 1899 | 5956 |
| ApEn | Actual Class | Sch | 4586 | 1177 |
| Healthy | 3320 | 4287 |
| ApEn\_Entropy + Band-pass | Actual Class | Sch | 5077 | 234 |
| Healthy | 3154 | 4076 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 3425 | 1287 |
| Healthy | 2134 | 1486 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4092 | 298 |
| Healthy | 157 | 4211 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4895 | 824 |
| Healthy | 5219 | 1321 |
| **Feature Name** | **Classes Name** | **Ensemble** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 6265 | 501 |
| Healthy | 128 | 675 |
| ApEn | Actual Class | Sch | 5211 | 1300 |
| Healthy | 1123 | 5465 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 5166 | 395 |
| Healthy | 1765 | 4029 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 6101 | 223 |
| Healthy | 109 | 5241 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 6236 | 122 |
| Healthy | 57 | 7532 |
| Kurtosis+ Band-pass | Actual Class | Sch | 5243 | 1194 |
| Healthy | 3143 | 5976 |