Two-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 | 4114 | 210 |
| Healthy | 282 | 5064 |
| ApEn | Actual Class | Sch | 4511 | 451 |
| Healthy | 361 | 3573 |
| ApEn\_Entropy+Band-pass | Actual Class | Sch | 3913 | 389 |
| Healthy | 1221 | 3241 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5288 | 321 |
| Healthy | 1811 | 5074 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 6144 | 112 |
| Healthy | 48 | 6575 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4723 | 1211 |
| Healthy | 2743 | 4512 |
| **Feature Name** | **Classes Name** | **KNN** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 4495 | 278 |
| Healthy | 312 | 4171 |
| ApEn | Actual Class | Sch | 4671 | 351 |
| Healthy | 412 | 2712 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 3412 | 433 |
| Healthy | 1980 | 4032 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5120 | 122 |
| Healthy | 197 | 5111 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 4421 | 31 |
| Healthy | 47 | 2371 |
| Kurtosis+ Band-pass | Actual Class | Sch | 4122 | 2288 |
| Healthy | 2611 | 4425 |
| **Feature Name** | **Classes Name** | **QDA** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 4983 | 563 |
| Healthy | 1001 | 5984 |
| ApEn | Actual Class | Sch | 4944 | 1121 |
| Healthy | 1135 | 2941 |
| ApEn\_Entropy + Band-pass | Actual Class | Sch | 6452 | 7181 |
| Healthy | 222 | 14613 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5428 | 123 |
| Healthy | 3542 | 4112 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 3442 | 43 |
| Healthy | 91 | 2423 |
| Kurtosis+ Band-pass | Actual Class | Sch | 5423 | 129 |
| Healthy | 5997 | 1100 |
| **Feature Name** | **Classes Name** | **Ensemble** |
| **Predicted Class** |
| FFT | Actual Class | Sch | 6032 | 211 |
| Healthy | 310 | 6111 |
| ApEn | Actual Class | Sch | 5017 | 599 |
| Healthy | 659 | 5025 |
| ApEn\_Entropy+ Band-pass | Actual Class | Sch | 5381 | 1861 |
| Healthy | 1391 | 10242 |
| Shannon Entropy+ Band-pass | Actual Class | Sch | 5022 | 36 |
| Healthy | 210 | 5112 |
| Log Energy Entropy+ Band-pass | Actual Class | Sch | 3276 | 21 |
| Healthy | 33 | 2037 |
| Kurtosis+ Band-pass | Actual Class | Sch | 5110 | 1232 |
| Healthy | 2355 | 5045 |