**(a) Macro F1 Scores**

| Dataset | Model | UL | SuSL | | SSL | | SL |
|---|---|---|---|---|---|---|---|
| | | 0.00 % | 20.00 % | 50.00 % | 20.00 % | 50.00 % | 100.00 % |
| HAR | Baseline (MLP SuSL,[27, 28]) | 61.96 | | | 83.01 | 87.85 | 89.79 |
| | SuSL4TS | 64.46 | | | 92.73 | 91.80 | 93.28 |
| | SuSL4TS (movement (h)) | | 37.64 | 38.69 | | | |
| | SuSL4TS (stationary (h)) | | 79.32 | 87.95 | | | |
| | SuSL4TS (walking,laying (h)) | | 49.59 | 73.33 | | | |
| ECG | Baseline (MLP SuSL,[27, 28]) | 32.22 | | | 84.30 | 87.23 | 90.55 |
| | SuSL4TS | 28.32 | | | 86.68 | 85.66 | 86.34 |
| | SuSL4TS (q,v (h)) | | 46.04 | 41.21 | | | |
| | SuSL4TS (n (h)) | | 46.43 | 53.32 | | | |
| El. Devices | Baseline (MLP SuSL,[27, 28]) | 43.59 | | | 40.09 | 39.59 | 45.93 |
| | SuSL4TS | 37.02 | | | 61.91 | 61.18 | 57.45 |
| | SuSL4TS (1−3 (h)) | | 42.25 | 44.14 | | | |
| | SuSL4TS (4−7 (h)) | | 27.35 | 38.08 | | | |

**(b) Weighted F1 Scores**

| Dataset | Model | UL | SuSL | | SSL | | SL |
|---|---|---|---|---|---|---|---|
| | | 0.00 % | 20.00 % | 50.00 % | 20.00 % | 50.00 % | 100.00 % |
| HAR | Baseline (MLP SuSL,[27, 28]) | 65.48 | | | 83.26 | 87.72 | 89.82 |
| | SuSL4TS | 65.34 | | | 92.76 | 91.73 | 93.21 |
| | SuSL4TS (movement (h)) | | 61.44 | 61.92 | | | |
| | SuSL4TS (stationary (h)) | | 87.83 | 87.89 | | | |
| | SuSL4TS (walking,laying (h)) | | 71.87 | 83.34 | | | |
| ECG | Baseline (MLP SuSL,[27, 28]) | 89.03 | | | 97.00 | 97.70 | 98.24 |
| | SuSL4TS | 87.55 | | | 97.66 | 97.39 | 97.77 |
| | SuSL4TS (q,v (h)) | | 91.14 | 90.69 | | | |
| | SuSL4TS (n (h)) | | 91.82 | 93.98 | | | |
| El. Devices | Baseline (MLP SuSL,[27, 28]) | 55.92 | | | 54.57 | 59.33 | 61.35 |
| | SuSL4TS | 58.15 | | | 72.83 | 68.42 | 71.10 |
| | SuSL4TS (1−3 (h)) | | 59.22 | 63.34 | | | |
| | SuSL4TS (4−7 (h)) | | 61.71 | 64.77 | | | |