## Sense2Stop: Exploratory Analyses

August 10, 2020

Figure 1: Average fraction of classifiable minutes out of the 120 minutes following an available decision time. A classifiable minute is one which belongs to either a detected stressed episode, a not detected stressed episode or an unknown episode that is due to physical activity.

	rage fr										Average
ID	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Within ID
202	0.82	0.89	0.68	0.9	0.73	0.64	0.6	0.6	0.44	0.76	0.64
203	nan	nan	nan	nan	nan	nan	0.86	0.38	nan	nan	0.6
205	0.72	0.92	0.76	0.9	0.76	0.8	0.97	0.85	0.82	0.76	0.76
207	0.78	0.74	0.77	0.51	0.9	0.7	0.74	0.79	0.57	nan	0.7
208	0.72	0.78	0.65	0.54	nan	0.59	0.42	0.62	nan	nan	0.6
211	0.92	0.72	0.87	0.67	0.9	0.96	0.72	0.87	0.75	0.78	0.76
212	0.85	nan	0.98	0.2	0.6	nan	nan	nan	nan	nan	0.59
213	0.64	0.33	nan	nan	nan	nan	nan	nan	nan	nan	0.48
214	0.73	0.9	0.76	0	0.88	0.48	0.54	nan	nan	nan	0.53
216	0.71	0.88	0.63	0.74	0.79	0.8	nan	1.27	0.71	0.45	0.72
219	0.86	0.91	0.74	0.91	0.73	0.97	0.83	0.86	0.83	0.9	0.8
221	0.68	nan	nan	nan	nan	nan	nan	nan	nan	nan	0.63
222	0.98	0.83	nan	nan	nan	nan	nan	nan	nan	nan	0.82
223	1	1	0.92	0.91	0.98	0.9	0.2	nan	nan	1	0.82
224	0.2	nan	nan	nan	nan	nan	0.78	0.4	0.1	nan	0.37
225	0.68	0.96	0.96	0.57	1	0.83	0.82	0.64	0.54	0.97	0.77
226	0.95	0.89	0.63	0.83	nan	0.9	0.9	0.89	0.89	0.99	0.84
227	0.78	0.86	0.87	0.88	0.98	0.99	0.94	0.83	0.89	0.78	0.86
228	0.97	0.81	0.73	0.71	0.93	0.84	0.72	0.73	0.73	0.87	0.71
229	0.99	nan	nan	nan	nan	nan	nan	nan	nan	nan	0.92
231	nan	0.88	0.52	nan	nan	nan	nan	nan	nan	nan	0.66
233	0.85	0.84	0.79	0.48	0.82	nan	0.66	nan	nan	nan	0.72
234	nan	0.54			nan						0.72
235	0.75	0.79	nan 0.82	0.54	0.62	nan	nan	nan	nan	nan	0.44
233 238	0.73		0.82	0.73	0.83	nan	nan	nan	0.62	nan	0.87
230 240	0.85	nan			0.83	0.74	0.93	nan 0.57	0.62	0.89	0.76
240 242	0.55	nan	nan	nan					0.68	0.4	0.77
242 243	0.66	0.33	nan	nan	nan	0.13	nan nan	nan			0.48
243 244	0.51	0.46	0.74	0.66	0.48	0.13	0.47	0.31	0.38	0.68	0.53
244 245	0.35	0.46		0.00	0.52	0.24	nan	0.76		0.45	0.33
243 248	0.43	0	nan O	0.35	0.32	nan	nan	0.70	nan	nan	0.22
249 249	0.76	0.92	0.75	0.45	0.52	0.54	0.8		0.99	0.46	0.68
249 250	0.76	0.62	0.73	0.43	0.82	0.54	0.88	nan 0.87	0.99	0.46	0.69
251	0.78	nan	0.89	nan	0.63	nan	0.41	0.83	0.78		0.61
252	0.78	1	0.99	0.97	0.03					nan 1	0.89
						0.87	0.91	0.95	0.82	_	
253 255	0.94	0.98	1 nan	0.98	0.98	0.95 nan	0.91	0.88	0.81	0.84	0.83
255 256		nan	nan 0.79	nan	0.35	0.27	nan 0.73	nan	nan 0.2	nan	0.85
258 258	0.66	0.05	0.79	nan 0.8	1			0.33		0.32	
	nan					nan	nan	nan	nan	nan	0.21
259 260	nan	0	nan	nan	nan	nan	nan	nan	nan	nan	0
260 261	0.82	0.9	0.92	0.87	0.94	0.87	0.68	0.8	0.47	0.12	0.71
261 262	0.84	1	0.97	0.71	0.79	0.73	nan	0.86	0.83	0.9	0.79
262 264	0.73	0.94	0.84	0.77	0.99	0	0.84	0.85	0.81	0.76	0.69
264	nan	0.9	0.78	0.64	0.76	0.45	0.46	0.83	0.88	0.79	0.7
265 266	0.8	0.65	0.77	0.86	0.66	0.3	0.64	nan	0.91	0.57	0.66
266 267	nan	1	0.25	nan	nan	nan	nan	nan	nan	nan	0.62
267 260	nan	0.96	0.99	0.89	0.93	nan	0.9	0	nan	nan	0.68
268	0.52	nan	nan	nan	nan	nan	nan	nan	nan	nan	0.5
269	0.76	0.43	0.68	0.68	0.59	0.39	0.48	0.79	0.73	0.38	0.55

Figure 2: Number of available decision times in which the user is within a detected stressed episode across days and IDs.

ID	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Average over day
02	3	1	0	0	0	0	0	0	0	2	0.6
203	0	0	0	0	0	0	1	0	0	0	0.1
205	0	1	0	0	0	2	0	0	1	3	0.7
07	0	0	0	0	0	0	1	0	0	0	0.1
80	1	0	0	3	0	3	1	1	0	0	0.9
11	0	2	0	0	1	1	0	2	2	0	0.8
12	3	0	0	0	0	0	0	0	0	0	0.3
13	2	0	0	0	0	0	0	0	0	0	0.2
14	0	0	0	0	0	0	0	0	0	0	0
16	9	0	7	4	6	2	0	0	1	4	3.3
19	1	3	0	0	0	1	1	3	7	2	1.8
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	2	0	2	1	1	3	1	0	0	0	1
24	4	0	0	0	0	0	4	0	0	0	0.8
25	0	3	2	0	0	0	0	0	0	0	0.5
26	3	0	3	0	0	2	0	1	0	1	1
27	1	0	1	1	1	4	0	0	2	3	1.3
28	1	0	1	1	1	0	0	0	0	0	0.4
29	1	0	0	0	0	0	0	0	0	0	0.1
31	0	1	0	0	0	0	0	0	0	0	0.1
33	0	1	0	1	0	0	0	0	0	0	0.2
34	0	0	0	0	0	0	0	0	0	0	0
35	0	0	1	1	0	0	0	0	0	0	0.2
38	0	0	1	0	0	0	0	0	0	0	0.1
40	0	0	0	0	0	0	0	0	0	0	0
42	1	0	0	0	0	0	0	0	0	0	0.1
43	2	1	0	0	0	1	0	0	0	0	0.4
44	0	0	1	1	1	0	0	1	4	5	1.3
45	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0
49	1	3	0	1	1	2	1	0	1	1	1.1
50	3	0	2	0	0	0	0	0	0	5	1
51	1	0	0	0	0	0	1	0	0	0	0.2
52	0	3	2	1	1	0	2	0	3	0	1.2
53	1	5	0	2	1	0	1	4	1	5	2
55	0	0	0	0	0	0	0	0	0	0	0
56	1	0	0	0	0	0	1	0	0	2	0.4
58	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0
60	2	0	1	2	2	1	0	0	0	1	0.9
61	1	0	1	5	1	1	0	0	1	0	1
62	0	0	1	0	0	0	0	0	0	0	0.1
64	0	0	0	0	0	0	0	0	0	0	0
65	0	2	1	2	1	0	3	0	3	4	1.6
66	0	0	0	0	0	0	0	0	0	0	0
67	0	1	0	0	0	0	5	0	0	0	0.6
68	0	0	0	0	0	0	0	0	0	0	0
69	0	1	0	2	0	0	0	3	0	0	0.6

Figure 3: Number of available decision times in which the user is within a not detected stressed episode across days and IDs.

ID	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Average over days
02	1	14	6	2	7	5	2	4	8	18	6.7
03	0	0	0	0	0	0	9	6	0	0	1.5
05	21	21	14	41	23	16	28	18	18	16	21.6
07	24	28	30	27	34	33	11	25	17	0	22.9
80	5	19	16	7	0	7	17	4	0	0	7.5
11	9	29	32	15	12	11	30	13	8	21	18
12	22	0	9	2	8	0	0	0	0	0	4.1
13	5	4	0	0	0	0	0	0	0	0	0.9
14	17	20	5	1	12	12	8	0	0	0	7.5
16	8	36	17	13	11	10	0	14	6	2	11.7
19	8	32	26	37	19	23	20	24	14	26	22.9
21	4	0	0	0	0	0	0	0	0	0	0.4
22	12	19	0	0	0	0	0	0	0	0	3.1
23	3	22	15	15	20	16	1	0	0	1	9.3
24	0	0	0	0	0	0	15	3	1	0	1.9
25	8	17	6	8	1	18	40	16	11	20	14.5
26	3	37	24	35	0	10	7	14	26	9	16.5
27	13	31	25	40	30	24	45	30	28	16	28.2
28	18	28	14	26	23	10	27	11	9	15	18.1
29	7	0	0	0	0	0	0	0	0	0	0.7
31	0	3	4	0	0	0	0	0	0	0	0.7
33	11	27	43	23	11	0	25	0	0	0	14
34	0	12	0	0	0	0	0	0	0	0	1.2
35	17	24	21	13	6	0	0	0	0	0	8.1
38	2	0	22	10	17	16	0	0	6	36	10.9
40	4	0	0	0	4	13	13	4	11	3	5.2
42	1	0	0	0	0	0	0	0	6	2	0.9
43	3	2	0	0	0	2	0	0	0	0	0.7
44	11	18	26	18	12	20	18	7	6	13	14.9
45	8	1	0	1	11	11	0	5	0	2	3.9
48	7	1	1	4	2	0	0	22	0	0	3.7
49	7	15	11	5	26	11	30	0	37	14	15.6
50	17	32	14	9	21	22	22	47	36	5	22.5
51	21	0	14	0	13	0	6	7	2	0	6.3
52	30	24	23	29	42	22	7	31	3	30	24.1
53	13	14	27	16	20	25	12	4	17	13	16.1
55	4	0	0	0	0	0	0	0	0	0	0.4
56	4	1	13	0	8	6	6	9	4	2	5.3
58	0	2	1	1	1	0	0	0	0	0	0.5
59	0	1	0	0	0	0	0	0	0	0	0.1
60	22	25	19	25	25	10	5	4	22	3	16
61	28	22	10	9	28	22	0	24	21	26	19
62	18	18	23	15	11	1	9	20	15	18	14.8
64	0	28	11	16	16	17	15	23	8	27	16.1
65	4	16	23	7	15	14	7	0	15	9	11
66	0	17	2	0	0	0	0	0	0	0	1.9
67	0	34	13	16	11	0	28	1	0	0	10.3
68	4	0	0	0	0	0	0	0	0	0	0.4
69	11	9	19	18	13	14	13	20	18	16	15.1