C:\Users\whitn\Anaconda2\envs\ml4qs2\python.exe C:/Users/whitn/OneDrive/Documenten/Groupwork\_TommyErik/ML4QS/ML4QS-master/PythonCode/crowdsignals\_ch2\_gym.py

**Data summary (granularty 60 seconds)**

column, fraction missing values, mean, standard deviation, min, max

acc\_phone\_x 0.0 -3.03003116713 7.13779141554 -10.4032912445 8.52621564326

acc\_phone\_y 0.0 -4.27429681148 3.50579837686 -9.64986799613 5.47180744223

acc\_phone\_z 0.0 -1.00230651405 1.87333338634 -6.19759493824 4.76176878115

gyr\_phone\_x 0.0 0.0103588827678 0.0649330267543 -0.158424453923 0.227068815269

gyr\_phone\_y 0.0 -0.00742965787375 0.0674555424449 -0.25202690921 0.118893021386

gyr\_phone\_z 0.0 0.035080163748 0.0617066857251 -0.0427877826423 0.226652235025

labelsquat 0.0 0.0568181818182 0.232821501627 0 1

labelOP 0.0 0.0568181818182 0.232821501627 0 1

labelDL 0.0 0.0795454545455 0.272138863686 0 1

labeldbpress 0.0 0.0681818181818 0.253502116133 0 1

labelwalking 0.0 0.0681818181818 0.253502116133 0 1

labelrunning 0.0 0.0681818181818 0.253502116133 0 1

labelcycle 0.0 0.0681818181818 0.253502116133 0 1

labelrow 0.0 0.0681818181818 0.253502116133 0 1

mag\_phone\_x 0.0 -1.57792750238 25.006736631 -42.2747578937 37.2341873807

mag\_phone\_y 0.0 18.7775540873 17.2785748695 -28.1606395085 52.0845631872

mag\_phone\_z 0.0 14.4843179224 14.980507524 -25.8211709779 50.3014466604

**Data summary (granularty 0.25 seconds)**

column, fraction missing values, mean, standard deviation, min, max

acc\_phone\_x 0.225081153332 -2.14419676578 8.31608106785 -44.13182739 42.02316238

acc\_phone\_y 0.225081153332 -4.18140589522 5.07329351812 -54.51259048 13.84351227

acc\_phone\_z 0.225081153332 -1.11153998683 4.40420593583 -77.85430115 31.13166138

gyr\_phone\_x 0.00090700782891 0.0090793961236 1.10691426449 -8.278435707 11.85560989

gyr\_phone\_y 0.00090700782891 -0.00756586362818 1.46633910782 -22.9312458 14.06650639

gyr\_phone\_z 0.00090700782891 0.0345069085124 0.94555836864 -5.668970585 11.05311203

labelsquat 0.0 0.0209089173191 0.143082884395 0 1

labelOP 0.0 0.016517089937 0.127456075458 0 1

labelDL 0.0 0.02367767806 0.152046536358 0 1

labeldbpress 0.0 0.0251575329387 0.156607159062 0 1

labelwalking 0.0 0.0459709757495 0.209427168442 0 1

labelrunning 0.0 0.0459709757495 0.209427168442 0 1

labelcycle 0.0 0.0461619247661 0.20984066214 0 1

labelrow 0.0 0.0470211953408 0.211689257516 0 1

mag\_phone\_x 0.00090700782891 -1.47734111344 25.890068969 -60.61455536 63.57189178

mag\_phone\_y 0.00090700782891 18.7458469184 19.4732465301 -41.47010803 62.53869629

mag\_phone\_z 0.00090700782891 14.8178046769 17.8850454229 -47.76050568 73.57530975

**Latex Table \_ granularity 60sec, 250millisec**

attribute, fraction missing values, mean, standard deviation, min, max

acc\_phone\_x & 0.00 / 22.51 & -3.03 / -2.14 & 7.14 / 8.32 & -10.40 / -44.13 & 8.53 / 42.02

acc\_phone\_y & 0.00 / 22.51 & -4.27 / -4.18 & 3.51 / 5.07 & -9.65 / -54.51 & 5.47 / 13.84

acc\_phone\_z & 0.00 / 22.51 & -1.00 / -1.11 & 1.87 / 4.40 & -6.20 / -77.85 & 4.76 / 31.13

gyr\_phone\_x & 0.00 / 0.09 & 0.01 / 0.01 & 0.06 / 1.11 & -0.16 / -8.28 & 0.23 / 11.86

gyr\_phone\_y & 0.00 / 0.09 & -0.01 / -0.01 & 0.07 / 1.47 & -0.25 / -22.93 & 0.12 / 14.07

gyr\_phone\_z & 0.00 / 0.09 & 0.04 / 0.03 & 0.06 / 0.95 & -0.04 / -5.67 & 0.23 / 11.05

labelsquat & 0.00 / 0.00 & 0.06 / 0.02 & 0.23 / 0.14 & 0.00 / 0.00 & 1.00 / 1.00

labelOP & 0.00 / 0.00 & 0.06 / 0.02 & 0.23 / 0.13 & 0.00 / 0.00 & 1.00 / 1.00

labelDL & 0.00 / 0.00 & 0.08 / 0.02 & 0.27 / 0.15 & 0.00 / 0.00 & 1.00 / 1.00

labeldbpress & 0.00 / 0.00 & 0.07 / 0.03 & 0.25 / 0.16 & 0.00 / 0.00 & 1.00 / 1.00

labelwalking & 0.00 / 0.00 & 0.07 / 0.05 & 0.25 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelrunning & 0.00 / 0.00 & 0.07 / 0.05 & 0.25 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelcycle & 0.00 / 0.00 & 0.07 / 0.05 & 0.25 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelrow & 0.00 / 0.00 & 0.07 / 0.05 & 0.25 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

mag\_phone\_x & 0.00 / 0.09 & -1.58 / -1.48 & 25.01 / 25.89 & -42.27 / -60.61 & 37.23 / 63.57

mag\_phone\_y & 0.00 / 0.09 & 18.78 / 18.75 & 17.28 / 19.47 & -28.16 / -41.47 & 52.08 / 62.54

mag\_phone\_z & 0.00 / 0.09 & 14.48 / 14.82 & 14.98 / 17.89 & -25.82 / -47.76 & 50.30 / 73.58

Process finished with exit code 0

**Summary data 300ms granularity**

column, fraction missing values, mean, standard deviation, min, max

acc\_phone\_x 0.149739359569 -2.48774382253 8.19010050492 -44.13182739 42.02316238

acc\_phone\_y 0.149739359569 -4.20857570275 4.97553183863 -54.17474304 13.84351227

acc\_phone\_z 0.149739359569 -1.08519027988 4.27171823686 -77.82166901 31.13166138

gyr\_phone\_x 5.72836111588e-05 0.00968337340863 1.04762552395 -7.498518467 11.85560989

gyr\_phone\_y 5.72836111588e-05 -0.00373746224569 1.37774108521 -20.80010223 14.06650639

gyr\_phone\_z 5.72836111588e-05 0.0342469335741 0.881750903695 -5.668970585 11.05311203

labelsquat 0.0 0.0210803689065 0.14365642737 0 1

labelOP 0.0 0.0164976800137 0.127383028998 0 1

labelDL 0.0 0.0237726986309 0.152344632067 0 1

labeldbpress 0.0 0.0251475052987 0.156577497331 0 1

labelwalking 0.0 0.0459987397606 0.209488351976 0 1

labelrunning 0.0 0.0459414561494 0.209364155692 0 1

labelcycle 0.0 0.0461133069829 0.209736476973 0 1

labelrow 0.0 0.0470871283726 0.211831303572 0 1

mag\_phone\_x 5.72836111588e-05 -1.47742929773 25.866390572 -60.265716555 44.54753876

mag\_phone\_y 5.72836111588e-05 18.7446564741 19.4201530168 -41.14974976 62.53869629

mag\_phone\_z 5.72836111588e-05 14.8274196144 17.8226253844 -47.7425766 73.57530975

**Latex Table \_ granularity 300 ms vs 100ms**

attribute, fraction missing values, mean, standard deviation, min, max

acc\_phone\_x & 14.97 / 69.00 & -2.49 / -2.14 & 8.19 / 8.32 & -44.13 / -44.13 & 42.02 / 42.02

acc\_phone\_y & 14.97 / 69.00 & -4.21 / -4.18 & 4.98 / 5.07 & -54.17 / -54.51 & 13.84 / 13.84

acc\_phone\_z & 14.97 / 69.00 & -1.09 / -1.11 & 4.27 / 4.40 & -77.82 / -77.85 & 31.13 / 31.13

gyr\_phone\_x & 0.01 / 60.04 & 0.01 / 0.01 & 1.05 / 1.11 & -7.50 / -8.28 & 11.86 / 11.86

gyr\_phone\_y & 0.01 / 60.04 & -0.00 / -0.01 & 1.38 / 1.47 & -20.80 / -22.93 & 14.07 / 14.07

gyr\_phone\_z & 0.01 / 60.04 & 0.03 / 0.03 & 0.88 / 0.95 & -5.67 / -5.67 & 11.05 / 11.05

labelsquat & 0.00 / 0.00 & 0.02 / 0.02 & 0.14 / 0.14 & 0.00 / 0.00 & 1.00 / 1.00

labelOP & 0.00 / 0.00 & 0.02 / 0.02 & 0.13 / 0.13 & 0.00 / 0.00 & 1.00 / 1.00

labelDL & 0.00 / 0.00 & 0.02 / 0.02 & 0.15 / 0.15 & 0.00 / 0.00 & 1.00 / 1.00

labeldbpress & 0.00 / 0.00 & 0.03 / 0.02 & 0.16 / 0.16 & 0.00 / 0.00 & 1.00 / 1.00

labelwalking & 0.00 / 0.00 & 0.05 / 0.05 & 0.21 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelrunning & 0.00 / 0.00 & 0.05 / 0.05 & 0.21 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelcycle & 0.00 / 0.00 & 0.05 / 0.05 & 0.21 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

labelrow & 0.00 / 0.00 & 0.05 / 0.05 & 0.21 / 0.21 & 0.00 / 0.00 & 1.00 / 1.00

mag\_phone\_x & 0.01 / 60.04 & -1.48 / -1.48 & 25.87 / 25.89 & -60.27 / -60.61 & 44.55 / 63.57

mag\_phone\_y & 0.01 / 60.04 & 18.74 / 18.75 & 19.42 / 19.47 & -41.15 / -41.47 & 62.54 / 62.54

mag\_phone\_z & 0.01 / 60.04 & 14.83 / 14.82 & 17.82 / 17.89 & -47.74 / -47.76 & 73.58 / 73.58