
Data Fest Presentation

An Analysis For 2017-2018 Season Canada Football players

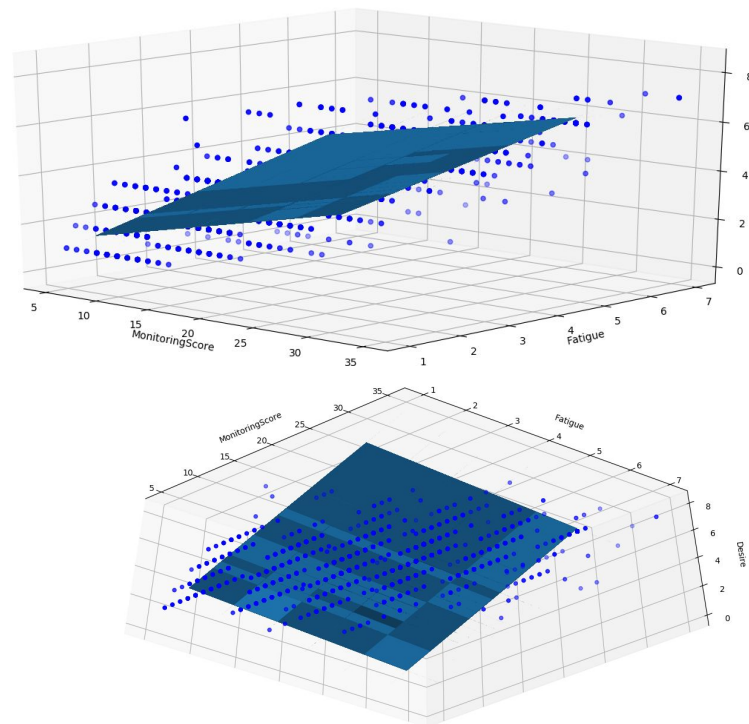
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Relation between scales in wellness

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The linear function is: 5.259523149524663 + 2.2654350958608274*(x1) + 1.4043558811162953*(x2)
MAE: 5.394927344587832
MSE: 5.787080404523567
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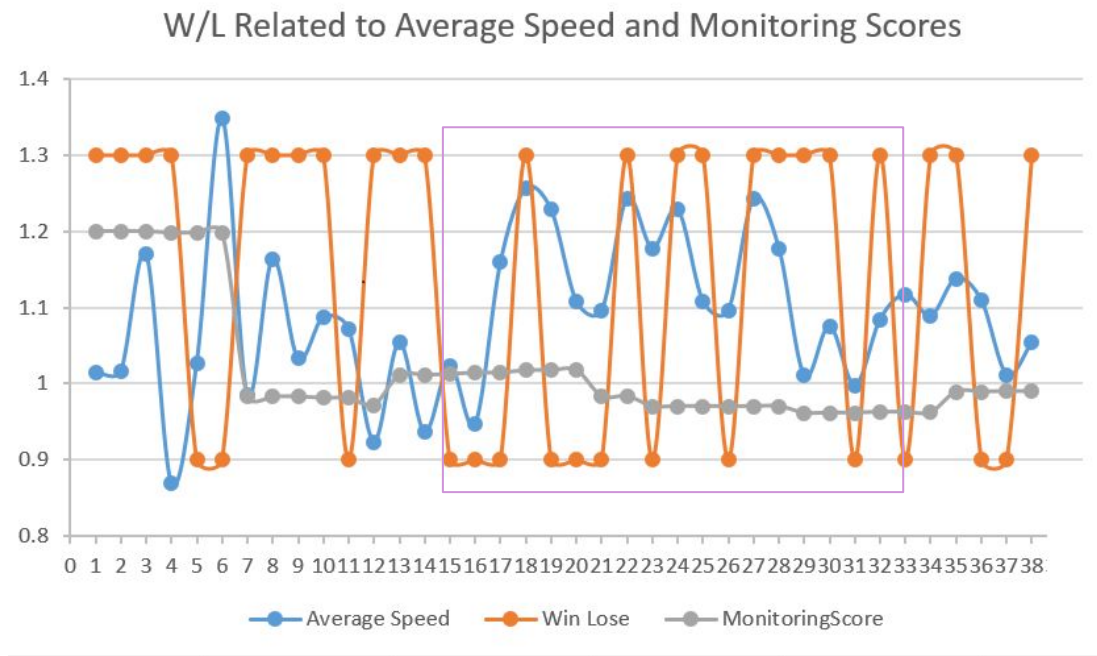
Predict monitoring score without knowing all the five scales.

	PlayerID	Fatigue	Soreness	Desire	Irritability	SleepHours	SleepQuality	MonitoringScore	USG
PlayerID	1.000000	0.014598	-0.023021	0.147680	-0.017140	0.145862	0.056373	0.052164	0.231833
Fatigue	0.014598	1.000000	0.519904	0.580195	0.481475	0.185780	0.525361	0.846338	-0.057746
Soreness	-0.023021	0.519904	1.000000	0.425858	0.329233	0.024464	0.281776	0.694283	-0.055170
Desire	0.147680	0.580195	0.425858	1.000000	0.451112	0.067461	0.311769	0.745488	0.058046
Irritability	-0.017140	0.481475	0.329233	0.451112	1.000000	0.088848	0.402843	0.688553	-0.026415
SleepHours	0.145862	0.185780	0.024464	0.067461	0.088848	1.000000	0.281798	0.184492	0.021657
SleepQuality	0.056373	0.525361	0.281776	0.311769	0.402843	0.281798	1.000000	0.710016	0.005358
MonitoringScore	0.052164	0.846338	0.694283	0.745488	0.688553	0.184492	0.710016	1.000000	-0.020129
USG	0.231833	-0.057746	-0.055170	0.058046	-0.026415	0.021657	0.005358	-0.020129	1.000000



Data and Graph

- Higher average speed => better game result
- Monitoring Score => future average speed in game



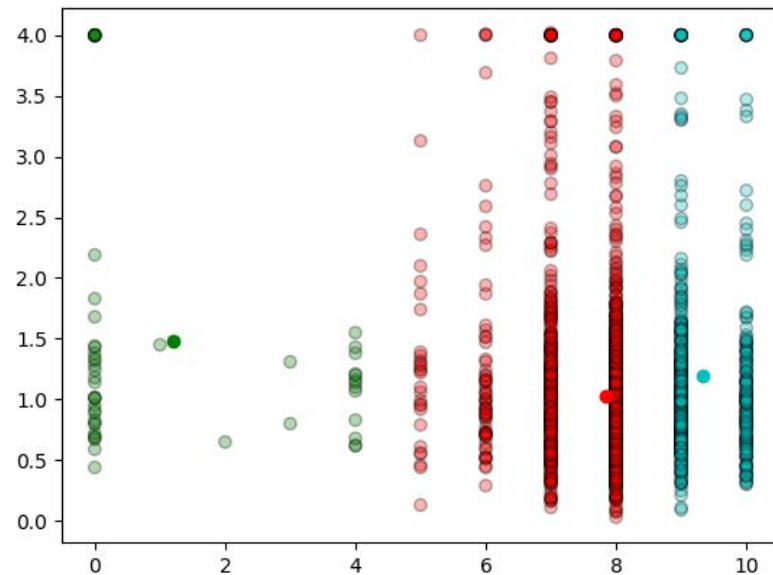
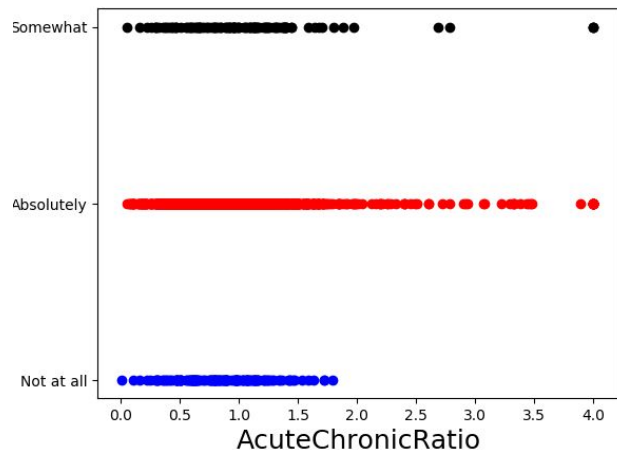
clustering-RPE and other aspects

Ratio of absolutely best out of myself (objectiveRating, Acute/Chronic ratio)

99.315% with center at (9.34, 1.192)

78.797% with center at (7.835, 1.207)

66.667% with center at (1.196, 1.484)



RPE-session type

Ratio of different session type: center(RPE, objectiveRating, focusRating)

Mobility/Recovery 98.587% with center at (3.595, 8.112, 8.204)

Speed 92.53% with center at (3.595, 8.112, 8.204)

Skills 87.735% with center at (3.595, 8.112, 8.204)

Strength 78.942% with center at (3.595, 8.112, 8.204)

Games 44.924% with center at (7.149, 7.998, 8.26)

Conditioning 40.104% with center at (7.149, 7.998, 8.26)

Not much sessions with center at (3.594, 2.678, 5.049) which is good...

